



INSTITUTE OF SOCIAL  
MEDICINE

10. PARKS ROAD,  
OXFORD

# County Palatine of Chester

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## REPORT

for the Year

1944

BY THE

## County Medical Officer of Health

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Presented to the

Public Health and Housing Committee

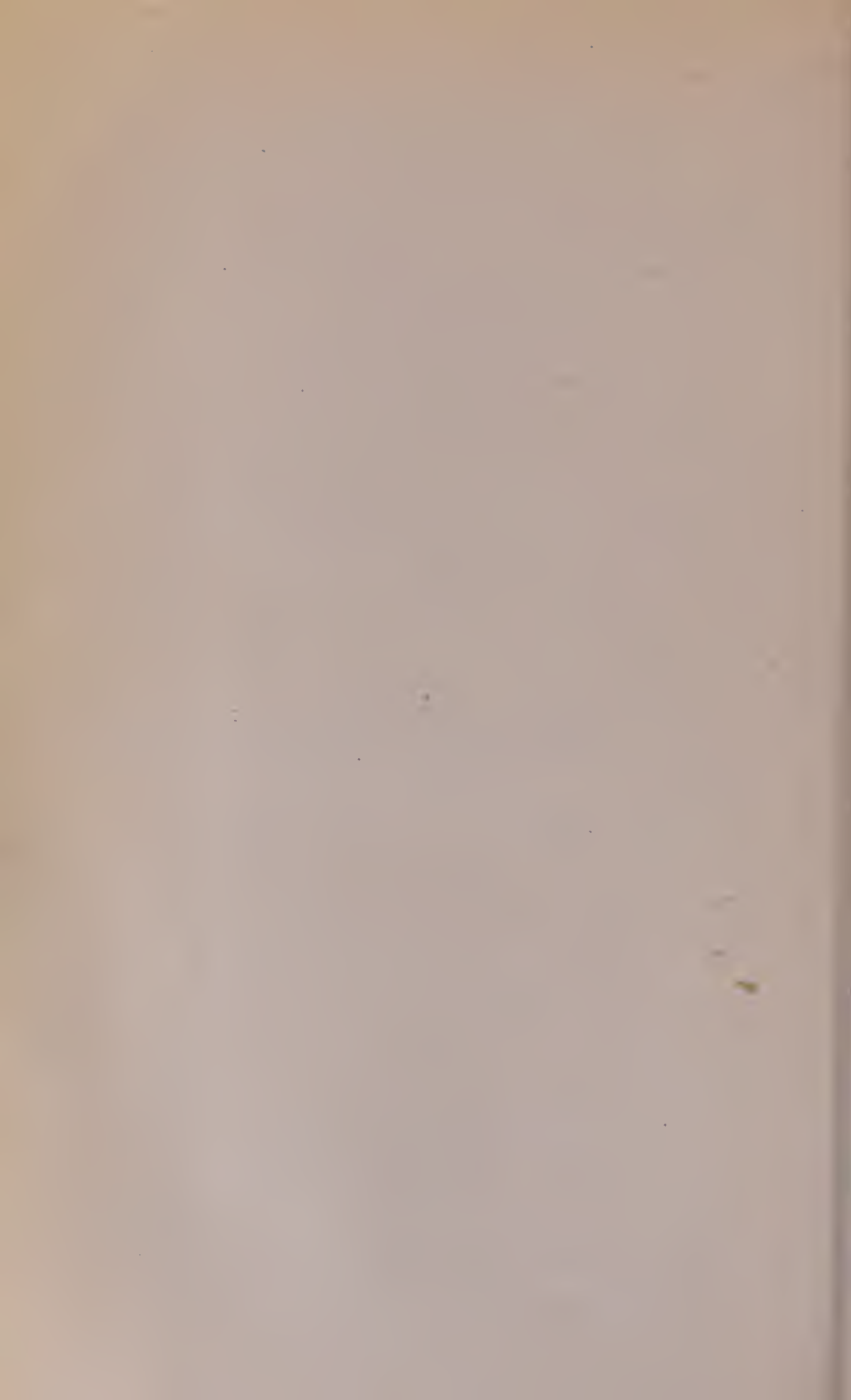
OF THE COUNTY COUNCIL

11th October, 1945.

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Chester :

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# REPORT

OF THE

## County Medical Officer of Health

For the Year ending December 31st, 1944.

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*To the Public Health and Housing Committee of the  
County Council of the County Palatine of Chester  
and to the Members of the County Council.*

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# INTRODUCTION

*To the Chairman and Members of the Public Health  
Committee of the Cheshire County Council.*

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present to you my report on the health and sanitary circumstances of the County for the year 1944.

The war being over, it is no longer necessary to suppress statistics from which the population of individual county districts could be computed, and those figures which for this reason had to be omitted from the 1941-43 reports have been appended to the present report in the special Table D.

It is gratifying to report that the final complete year under war conditions, so far from marking a decline in vital statistics, established some new low records. The infantile mortality, 39.8 per thousand live births, was in fact 11 per cent. lower than any previous year. The maternal mortality—1.94 deaths per thousand births, live and still—compares even more favourably with previous years, the stillbirths rate—29.2 per thousand births, live and still—was also appreciably lower than any previous year, and the tuberculosis death rate, .45 per thousand population, was lower than any previous year except 1942. There was also an increase in the birth rate, and a decline in the general death rate.

In June, 1944, a second County Council venereal diseases clinic was opened, at Herdman Street, Crewe, and further details are given on page 22.

The nine war-time nurseries at Northwich, Runcorn, Sale, Bollington, Dukinfield, Hazel Grove, Cheadle, Congleton and Bredbury still continue their work, and are much appreciated by mothers employed in local industries.

The story of the part played by the Public Health Department in the administration of those functions of Civil Defence known as the "Casualty Services"—First Aid Parties, First Aid Posts and Emergency Ambulances—and the many problems involved in their staffing and equipment, has been told elsewhere, in the report submitted in March, 1943, to the County Council by the A.R.P. Committee. I should, however, like to repeat here my thanks to the County District Councils and their staffs who gave such ungrudging help in difficult conditions. The work of the county hospitals in the Emergency Hospitals Scheme of the Ministry of Health has been evident from their reports throughout the war-time years.

This report is the last to contain a section on Maternity and Child Welfare contributed by my Assistant, Dr. Jean R. Shaw. Her retirement in April, 1945, was much regretted, and it is not yet easy to visualise without her zeal and loyalty the service to which she devoted herself for 31 years and saw grow from small beginnings to such extensive present activity.

Your obedient servant,

IAN C. MACKAY, M.B., Ch.B., D.P.H.,

10th September, 1945.

County Medical Officer.

## Staff of the Public Health Department

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|                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| County Medical Officer of Health and Chief School Medical Officer. | ... Ian Campbell Mackay, M.B., Ch.B., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Deputy County Medical Officer of Health                            | ... Arnold Brown, M.B., Ch.B., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Lady Assistant Medical Officer                                     | (Vacant).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| District Tuberculosis Officers                                     | ... A. Fleming, M.B., Ch.B., D.P.H.<br>J. F. Cotter, L.R.C.P.I., L.R.C.S.I.<br>E. Smith, M.D., D.P.H.<br>D. W. Tough, M.B., Ch.B., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Assistant School Medical Officers                                  | ... Robert J. Clarke, M.B., Ch.B., D.P.H.<br>Jennie Craig, M.B., Ch.B., D.P.H.<br>W. J. McIvor, M.B., Ch.B., D.P.H.<br>Mary A. Thomas, M.B., Ch.B., D.P.H.<br>Gladys Wilkinson, M.R.C.S., L.R.C.P.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| County Analyst                                                     | ... S. Ernest Melling, F.I.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| School Dental Surgeons                                             | ... H. R. Parry, L.D.S. (Senior)<br>E. J. Bermingham, B.D.S. (temporary)<br>J. L. Dickson, L.D.S. (with H.M. Forces)<br>H. Foulkes, L.D.S., R.C.S. (Eng.) (temporary)<br>J. M. Gibbons, L.D.S. (with H.M. Forces)<br>Dorothy D. Hamilton, L.D.S. (temporary)<br>Dorothy J. Griffith, L.D.S. (temporary)<br>A. F. Hely, L.D.S. (with H.M. Forces)<br>H. Jackson, L.D.S. (with H.M. Forces)<br>A. Jean Jones, L.D.S. (temporary)<br>W. K. Lever, L.D.S. (temporary)<br>H. Lipkin, L.D.S. (temporary)<br>Margt. A. McDonald, L.D.S. (temporary)<br>E. S. Poulter, L.D.S.<br>H. Schweitzer, Dr. Med. Dent. (temporary)<br>H. W. S. Sheasby, L.D.S. (with H.M. Forces)<br>E. Johnson Taylor, L.D.S.<br>Eleanor Brock, M.B., D.O.M.S.<br>S. H. Faulkner, M.D., M.R.C.P.I., D.O.M.S.<br>W. D. Hamilton, M.B., Ch.B., D.O.M.S.<br>T. S. Harrison, M.R.C.S., L.R.C.P.<br>Dorothy Simmonds, M.B., Ch.B.<br>A. C. Shuttleworth, M.B., D.O.M.S. |
| Ophthalmic Surgeons (Part-time)                                    | ... A. W. Ritchie, M.B., Ch.B., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Venereologist (Part-time)                                          | ... F. Humphries, A.R.S.I.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| County Sanitary Officer                                            | ... A. H. Moseley, M.R.S.I., A.M.I.S.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Assistant County Sanitary Inspector                                | ... L. Broughton (temporary)<br>E. Farrall.<br>T. T. Hares.<br>W. Morris.<br>T. Oakes (with H.M. Forces).<br>T. L. Wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Milk Samplers                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## CONSULTANTS FOR PUERPERAL CASES

## CHESTER

- J. Gardiner Wigley, F.R.C.S., 40, King Street, Chester.  
(Tel. Chester 938)  
A. W. Holgate, F.R.C.S., 24, Curzon Park, Chester. (Tel. Chester 628)

## LIVERPOOL

- Percy Malpas, F.R.C.S., 31, Rodney Street, Liverpool.  
(Tel. Royal 8522)  
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## MANCHESTER

- W. R. Addis, F.C.O.G., 2, St. John Street, Manchester 3.  
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6, Appleby Lodge, Wilmslow Road, Manchester 14.  
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(Tel. Didsbury 3350)  
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(Tel. Rusholme 2020)  
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(Tel. Blackfriars 1500)  
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(Tel. Didsbury 3092)  
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Manchester 3. (Tel. Blackfriars 4411)  
"Lawnhurst," Wilmslow Road, Manchester 20.  
(Tel. Didsbury 1812)  
R. Newton, M.D., M.C.O.G., 11, St. John Street, Manchester 3.  
(Tel. Blackfriars 2198)  
Leeside, Wythenshawe Road, Sale. (Tel. Sale 4878)

## STALYBRIDGE

- W. E. C. Thomas, M.B., Ch.B., M.C.O.G., Bank House, Stalybridge.  
(Tel. Stalybridge 2481)

## STOKE

- T. H. Richmond, F.R.C.S., 3, The Villas, London Road, Stoke-on  
Trent. (Tel. Stoke-on-Trent 48341)

## CLATTERBRIDGE (COUNTY) GENERAL HOSPITAL

*Medical Superintendent*

D. Wilkie, M.D., F.R.C.S. Ed. &amp; Eng.

*Deputy Medical Superintendent*

Susan Beatty, M.B., Ch.B., B.A.O.

*Resident Medical Officers*

D. Caplan, M.B., Ch.B., D.O.M.S., L.R.C.P.

A. H. Swithinbank, M.B., Ch.B.

(also 3 Assistant Medical Officers).

*Consulting Staff*

SURGEON—C. A. Wells, F.R.C.S.Ed. &amp; Eng.

GYNAECOLOGIST—Morris Datnow, M.D., F.R.C.S.Ed.

ORTHOPAEDIC SURGEON—G. T. Partridge, M.A., M.B., B.Ch.,  
F.R.C.S.

PHYSICIAN—E. T. Baker-Bates, M.D.

EYE SURGEON—W. D. Hamilton, M.B., B.Ch., D.O.M.S.

EAR, NOSE &amp; THROAT—P. Garson, F.R.C.S.Ed., D.L.O.

DENTAL SURGEON—C. E. Wilkinson, L.D.S.

PATHOLOGIST—J. Morrison Ritchie, M.A., M.B., Ch.B., D.P.H.

TUBERCULOSIS OFFICER—D. W. Tough, M.B., Ch.B., D.P.H.

RADIOLOGIST—R. F. Innes, M.B., D.R.M.E.

ANAESTHETIST—John Halton, M.B., Ch.B.

*Nursing and Administrative Staff*

|                   |     |                              |
|-------------------|-----|------------------------------|
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| Clerk and Steward | ... | Miss Tilston                 |
| Lady Almoner      | ... | Mrs. D. Lucas                |

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*Medical Officers*

C. P. O'Reardon, M.B. B.Ch., B.A.O.

S. Cope, M.B., B.Ch., B.A.

*Consulting Staff*

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VENEREOLOGIST—A. W. Ritchie, M.B., Ch.B.

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F.R.C.S.Ed.

OPHTHALMIC SURGEON—T. S. Harrison, M.R.C.S., L.R.C.P.

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PSYCHIATRIST—P. M. Crowe, M.B., Ch.B., D.P.M.

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D.P.M.

ANAESTHETIST—W. Broadhurst, M.B., Ch.B.

PATHOLOGIST—H. Stafford, M.B., Ch.B., D.P.M.

DENTIST—G. Phillips.

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Deputy Matron—Miss D. Janson, S.R.N., S.C.M.

Sister Tutor and Home Sister—Miss H. M. M. Kelly, S.R.N.

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Lady Almoner—Miss L. M. Reddish

MARY DENDY HOMES, ALDERLEY EDGE

*Medical Superintendent*

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*Clerk and Steward*

Miss A. Olive

WRENBURY HALL, NANTWICH

*Medical Superintendent*

Peter W. Edwards, M.B., Ch.B.

*Medical Officer*

N. Patterson, M.B., Ch.B.

*Matron*

Miss C. A. Barton, S.R.N.

## HEALTH VISITORS (49)

For districts in italics, M & C.W. work is not done; for districts in small capitals, M. & C.W. and School Medical work is not done; for districts in italic capitals, School Medical work is not done.

|                                                                                                                     | CIVIL PARISHES                                                                                                                                                                               | CENTRES, CLINICS & DISPENSARIES                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DISTRICT No. 1.</b><br>Elizabeth Owen,<br>8, Market Street,<br>Hoylake                                           | Grange<br>Hoylake-cum-West Kirby                                                                                                                                                             | Welfare Centre, 8, Market Street, Hoylake<br><i>Thurs. p.m.</i> (Tel. Hoylake 2322)<br>School Clinic, 8, Market Street, Hoylake<br><i>Mon.—Fri. a.m.</i> (Tel. Hoylake 2322)                                                                                                                                                                                                                                                                                                     |
| <b>DISTRICT No. 2a</b><br>C. Turcan,<br>4, Alpha Drive,<br>Rock Ferry,<br>Birkenhead<br>(Tel. Rock Ferry 1179)      | <i>Bebington-cum-Bromborough</i><br><i>Brimstage</i><br><i>Capenhurst</i><br><i>Eastham</i><br><i>Ledsham</i><br><i>Poulton-cum-Spital</i>                                                   | Puddington<br><i>Raby</i><br>Shotwick<br><i>Storeton</i><br><i>Thornton Hough</i><br>Woodbank<br>School Clinic, St. Mark's Parish Room,<br>New Ferry<br><i>Mon., Wed., Thurs., Fri. p.m.</i><br>Tub. Disp., 42, Hamilton Square, Birkenhead<br><i>Tues. &amp; Fri. p.m.</i> (Tel. Birkenhead 3080)                                                                                                                                                                               |
| <b>DISTRICT No. 2b</b><br>K. E. Carr,<br>292, Menlove Avenue,<br>Woolton,<br>Liverpool<br>(Tel. Liv. Gateacre 2387) | Burton<br>Gayton<br>Heswall<br>Ness                                                                                                                                                          | Neston-cum-Parkgate<br>Willaston<br>Welfare Centre, Wesleyan Sunday School,<br><i>Alt. Mon. p.m.</i><br>Welfare Centre, Wesleyan Sunday School,<br><i>Thurs. p.m.</i><br>School Clinic, Wesleyan Sunday School,<br><i>Wed. p.m.</i><br>School Clinic, Wesleyan Sunday School,<br><i>Tues. p.m.</i>                                                                                                                                                                               |
| <b>DISTRICT No. 2c</b><br>E. G. Sinden,<br>Cave Ledge,<br>Thurstaston Road,<br>Heswall                              | Earnston<br>Caldy<br>Frankby<br>Greasby                                                                                                                                                      | Irby<br>Pensby<br>Thurstaston<br>Welfare Centre, Village Hall, Irby<br><i>Alt. Mon. p.m.</i><br>Welfare Centre, Methodist Church Hall,<br><i>Alt. Tues. p.m.</i> Greasby                                                                                                                                                                                                                                                                                                         |
| <b>DISTRICT No. 3a</b><br>A. Breakwell,<br>17, Lincoln Drive,<br>Hoole                                              | <i>Childer Thornton</i><br><i>Ellesmere Port</i><br>Elton<br><i>Gt. Stanney</i><br><i>Gt. Sutton</i><br><i>Hooton</i>                                                                        | <i>Ince</i><br>Little Stanney<br><i>Little Sutton</i><br>Stoke<br>Thornton-le-Moors<br>School Clinic, York Road, Ellesmere Port<br><i>Mon.—Fri. a.m. (v. No. 3b)</i><br>(Tel. E. Port 328)                                                                                                                                                                                                                                                                                       |
| <b>DISTRICT No. 3b</b><br>A. Smith,<br>6 <sup>o</sup> , Bouverie Street,<br>Chester<br>Tel. Chester 2716)           | Aldford<br>Buerton<br>Chester Castle<br>Churton Heath<br>Claverton<br>Dodleston<br>Eaton<br>Eccleston                                                                                        | Huntington<br>Kinnerton<br>Lea Newbold<br>Marlston<br>Poulton<br>Pulford<br>Rowton<br>Saighton<br>School Clinic, York Road, Ellesmere Port<br><i>Mon.—Fri. a.m. (v. No. 3a)</i><br>(Tel. E. Port 328)                                                                                                                                                                                                                                                                            |
| <b>DISTRICT No. 4a</b><br>H. Marston,<br>43, Victoria Road,<br>Chester<br>(Tel. Chester 2986)                       | Barrow<br>Christleton<br>Great Boughton<br>Guilden Sutton                                                                                                                                    | Hoole U.D.<br>Hoole Village<br>Littleton<br>Welfare Centre, 55, Hoole Road, Chester<br><i>Tues. p.m., 1st Thurs. p.m.</i><br>School Clinic, 55, Hoole Road, Chester<br><i>Mon.—Fri. a.m.</i><br>Ante-Natal Clinic, 55, Hoole Road, Chester<br><i>2nd Thurs p.m. (v. No. 6)</i>                                                                                                                                                                                                   |
| <b>DISTRICT No. 4b</b><br>E. Greene,<br>Greysfield,<br>50a, Liverpool Road,<br>Chester<br>(Tel. Chester 1439)       | Bache<br>Backford<br>Bridge Trafford<br>Caughall<br>Chorlton-by-Backford<br>Croughton<br>Dunham-on-the-Hill<br>Great Saughall<br>Hapsford                                                    | Lea-by-Backford<br>Little Saughall<br>Mickle Trafford<br>Mollington<br>Moston<br>Picton<br>Shotwick Park<br>Upton<br>Wervin<br>Wimbolds<br>Trafford<br>Welfare Centre, Village Hall, Upton<br><i>1st &amp; 3rd Thurs. p.m.</i>                                                                                                                                                                                                                                                   |
| <b>DISTRICT No. 5</b><br>G. Wells<br>75b Dee Banks,<br>Chester<br>(Tel. Chester 1936)                               | Ashton<br>Beeston<br>Bruen Stapleford<br>Burton-by-Tarvin<br>Clotton Hoofield<br>Cotton Abbotts<br>Cotton Edmunds<br>Delamere<br>Duddon<br>Eaton<br>Foulk Stapleford<br>Hatton<br>Hockenhull | Horton-cum-Peel<br>Huxley<br>Iddinshall<br>Kelsall<br>Mouldsworth<br>Pryor's Heys<br>Tarporley<br>Tarvin<br>Tilstone Fearnall<br>Tiverton<br>Utkinton<br>Waverton<br>Willington<br>Welfare Centre, Reading Room, Utkinton<br><i>Alt. Thurs. p.m.</i><br>Welfare Centre, Parish Hall, Tarporley<br><i>Alt. Thurs. p.m.</i><br>Welfare Centre, Jubilee Hall, Malpas<br><i>Alt. Mon. p.m. (v. No. 6)</i><br>Welfare Centre, Parish Hall, Kelsall<br><i>1st &amp; 3rd Tues. p.m.</i> |

|                                                                                                                                                                                             | CIVIL PARISHES                                                                                                                                                                                               |                                                                                                                                                                                                          | CENTRES, CLINICS & DISPENSARIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DISTRICT No. 6</b><br>D. Toft,<br>The Oaks Lodge,<br>Upton,<br>Chester<br>(Tel. Chester 2422)                                                                                            | Carden<br>Chidlow<br>Chorlton<br>Chowley<br>Church Shocklach<br>Churton-by-Al'fd<br>Ch'rton-by-F'don<br>Clutton<br>Coddington<br>Crewe<br>Cuddington<br>Duckington<br>Edge<br>Edgerley<br>Egerton<br>Farndon | Golborne Bellow<br>Golborne David<br>Grafton<br>Hampton<br>Handley<br>Harthill<br>Horton<br>Kings Marsh<br>Larkton<br>Macefen<br>Malpas<br>Newton-by-<br>Malpas<br>Newton-by-<br>Tattenhall<br>Oldcastle | Welfare Centre, Jubilee Hall, Malpas<br><i>Alt. Mon. p.m. (v. No. 5)</i><br>School Clinic, Jubilee Hall, Malpas<br><i>Thurs. p.m.</i><br>Tub. Disp., 2, King's Buildings, Chester<br><i>* Wed. a.m. (Tel. Chester 2874)</i><br>Ante-Natal Clinic, 55, Hoole Road, Chester<br><i>2nd Thurs. p.m. (v. No. 4)</i><br>School Clinic, School House, Tattenhall<br><i>Tues. p.m.</i><br><br>Overton Threapwood<br>Shocklach Oviatt Tilston-by-Malpas<br>Stockton Tushingham<br>Stretton Wigland<br>Tattenhall Wychough |
| <b>DISTRICT No. 7a</b><br>H. K. Coventry,<br>7, Victoria Road,<br>Runcorn<br><br>E. Riley,<br>17, Cornwall Avenue,<br>Runcorn<br><br>A. A. Briers,<br>8, Daisy Mount,<br>Maghull, Liverpool | Runcorn U.D.<br>(Mersey and Halton Wards)<br><br>Runcorn U.D.<br>(Weston and Heath Wards)<br><br>Runcorn U.D.<br>(Bridgewater, Central and<br>Newtown Wards)                                                 |                                                                                                                                                                                                          | Welfare Centre, 29, High Street, Runcorn<br><i>Wed. a.m. and p.m. (Tel. Runcorn 2449)</i><br><br>School Clinic, 29, High Street, Runcorn<br><i>Tues. a.m. (Tel. Runcorn 2449)</i><br><i>Mon., Thurs., Fri. p.m.</i><br>Ante-Natal Clinic, 29, High Street, Runcorn<br><i>Thurs. a.m. (Tel. Runcorn 2449)</i>                                                                                                                                                                                                     |
| <b>DISTRICT No. 7b</b><br>S. E. Robinson,<br>Windover,<br>Halton Brook, Runcorn                                                                                                             | Aston<br>Daresbury<br>Dutton<br>Halton                                                                                                                                                                       | Hatton<br>Moore<br>Norton<br>Preston Brook                                                                                                                                                               | See District No. 7a<br><br>Sutton Whitley<br>Walton                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>DISTRICT No. 8.</b><br>B. Bird,<br>The Bungalow,<br>Chester Road,<br>Sutton Weaver,<br>Warrington                                                                                        | Alvanley<br>Frodsham<br>Helsby<br><br>Welfare Centre, Cable Works,<br><i>Alt. Tues. p.m.</i>                                                                                                                 | Kingsley<br>Manley<br>Norley<br><br>Helsby                                                                                                                                                               | School Clinic, Trinity Church House,<br><i>Fri. p.m.</i> Frodsham<br>Tuberculosis Disp., Mem. Hosp., Runcorn<br><i>Thurs. a.m. and p.m. (Tel. Runcorn 2046)</i><br>Welfare Centre, Trinity Church House,<br><i>Alt. Tues. p.m.</i> Frodsham                                                                                                                                                                                                                                                                      |
| <b>DISTRICT No. 9</b><br>W. Kidd,<br>Parkfield,<br>Middlewich Road,<br>Northwich<br>(Tel. Northwich 2186)                                                                                   | Acton<br>Anderton<br>Barnton<br>Comberbach<br>Crowton                                                                                                                                                        | Great Budworth<br>Little Leigh<br>Marbury<br>Marston<br>Weaverham                                                                                                                                        | Welfare Centre, Parish Hall, Weaverham<br><i>Alt. Tues. p.m.</i><br>Welfare Centre, Parkfield, Middlewich Road,<br><i>Thurs. p.m.</i> Northwich<br>School Clinic, C.E. School, Barnton<br><i>Wed. a.m. and p.m.</i><br>School Clinic, Council School, Weaverham<br><i>Tues. and Fri. a.m.</i>                                                                                                                                                                                                                    |
| <b>DISTRICT No. 10</b><br>E. Middlehurst,<br>Parkfield,<br>Middlewich Road,<br>Northwich<br>(Tel. Northwich 2186)                                                                           | Allostock<br>Aston-by-Bud'th<br>Bexton<br>Goostrey<br>Knutsford U.D.<br>Lostock Gralam<br>Mere<br>Nether Peover                                                                                              | Ollerton<br>Peover Inferior<br>Peover Superior<br>Pickmere<br>Plumley<br>Tabley Inferior<br>Tabley Superior<br>Toft                                                                                      | School Clinic, Mission Hall, Adams Hill,<br><i>Wed. p.m.</i> Knutsford<br>Tub. Disp., Physio-Therapy Clinic Northwich<br><i>Tues. p.m. (Tel. Northwich 4332)</i><br>Welfare Centre, Parkfield, Middlewich Road,<br><i>Thurs. p.m.</i> Northwich<br><br>Twemlow Wincham                                                                                                                                                                                                                                           |
| <b>DISTRICT No. 11</b><br>G. J. Dawson,<br>201, Hartford Road,<br>(Tel. Northwich 2540) Davenham<br>L. Scully,<br>201, Hartford Road,<br>Davenham                                           | Northwich U.D.<br>(Witton and Northwich Wards)<br><br>Northwich U.D.<br>(Castle and Winnington Wards)                                                                                                        |                                                                                                                                                                                                          | Welfare Centre, Darland House, Northwich<br><i>Tues. p.m.</i><br><br>School Clinic, Darland House, Northwich<br><i>Tues. and Fri. a.m.</i>                                                                                                                                                                                                                                                                                                                                                                       |
| <b>DISTRICT No. 12</b><br>M. Edwards,<br>Parkfield,<br>Middlewich Road,<br>Northwich                                                                                                        | Cuddington<br>Davenham<br>Hartford<br>Lach Dennis<br>Little Budworth                                                                                                                                         | Marton<br>Moulton<br>Oakmere<br>Rudheath<br>Whatecroft                                                                                                                                                   | School Clinic Parkfield, Middlewich Road,<br><i>Thurs. a.m.</i> Northwich<br><i>Mon., Wed., Fri. p.m.</i><br>Welfare Centre, Parkfield, Middlewich Road,<br><i>Thurs. p.m.</i> Northwich                                                                                                                                                                                                                                                                                                                         |
| <b>DISTRICT No. 13</b><br>G. W. Johnson,<br>Highfield, Swanlow Lane<br>Winsford                                                                                                             | Winsford U.D.                                                                                                                                                                                                | Darnhall                                                                                                                                                                                                 | Welfare Centre, 98, Weaver Street, Winsford<br><i>Fri. p.m. (Tel. Winsford 2387)</i><br>School Clinic, 98, Weaver Street, Winsford<br><i>Mon. and Wed. p.m., Fri. a.m.</i>                                                                                                                                                                                                                                                                                                                                       |
| <b>DISTRICT No. 14</b><br>M. E. Fox<br>The Priory,<br>Middlewich<br>(Tel. Middlewich 165)                                                                                                   | Middlewich U.D.<br>Bostock<br>Byley<br>Church Hulme                                                                                                                                                          | Crnage<br>Sproston<br>Stanthorne<br>Wimboldsley                                                                                                                                                          | Welfare Centre, The Priory, Middlewich<br><i>Mon. p.m. (Tel. Middlewich 165)</i><br>School Clinic, The Priory, Middlewich<br><i>Mon. a.m., Wed. and Fri. p.m.</i><br>(Tel. Middlewich 165)                                                                                                                                                                                                                                                                                                                       |

|                                                                                                                                                           | CIVIL PARISHES                                                                                                                                    | CENTRES, CLINICS & DISPENSARIES                                                                                                                                                                                                                                                                                                                              |
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| <b>DISTRICT No. 15</b><br>D. Thompson,<br>The Dowery,<br>Barker Street,<br>Nantwich                                                                       | Nantwich U.D.<br>Aston<br>Cholmondeston<br>Church Minshall<br>Henhull                                                                             | Leighton<br>Minshall Vernon<br>Poole<br>Wettenhall<br>Woolstanwood                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                           |                                                                                                                                                   | Welfare Centre, The Dowery, Nantwich<br><i>Thurs. p.m.</i> (Tel. Nantwich 5360)<br>School Clinic, The Dowery, Nantwich<br><i>Mon.—Fri. a.m.</i> (Tel. Nantwich 5360)<br>Worleston                                                                                                                                                                            |
| <b>DISTRICT No. 16a</b><br>R. Walch,<br>Clifford House,<br>Park Road,<br>Willaston,<br>Nantwich                                                           | Acton<br>Alraham<br>Austerson<br>Baddiley<br>Baddington<br>Batherton<br>Brindley                                                                  | Broomhall<br>Bulkeley<br>Bunbury<br>Burland<br>Calvey<br>Cholmondeley<br>Chorley                                                                                                                                                                                                                                                                             |
|                                                                                                                                                           |                                                                                                                                                   | Coole Pilate<br>Edleston<br>Faddiley<br>Haughton<br>Hurleston<br>Marbury<br>Norbury                                                                                                                                                                                                                                                                          |
|                                                                                                                                                           |                                                                                                                                                   | Peckforton<br>Ridley<br>Sound<br>Spurstow<br>Stapeley<br>Stoke<br>Wardle                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                           |                                                                                                                                                   | Willaston<br>Wirswall<br>Woodcott<br>Wrenbury                                                                                                                                                                                                                                                                                                                |
| <b>DISTRICT No. 16b</b><br>E. Hayes,<br>Brook House,<br>Green Lane,<br>Audlem, Crewe                                                                      | Audlem<br>Basford<br>Blakenhall<br>Bridgemere<br>Buerton<br>Checkley c. W.                                                                        | Chorlton<br>Dodcott, c. W.<br>Doddington<br>Hankelow<br>Hatherton<br>Hough                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                           |                                                                                                                                                   | Welfare Centre, Wesleyan Chapel, Audlem<br><i>1st and 3rd Tues. p.m.</i><br>Hunsterton<br>Shavington<br>Lea<br>Weston<br>Wybunbury                                                                                                                                                                                                                           |
| <b>DISTRICT No. 17a</b><br>R. Percival,<br>3, Newton Terrace,<br>St. Anne's Road,<br>Middlewich                                                           | Alsager U.D.<br>Barthomley<br>Church Lawton                                                                                                       | Crewe (Rural)<br>Haslington<br>Odd Rode                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                           |                                                                                                                                                   | Welfare Centre, St. Mary's Sunday School,<br><i>Alt. Tues. p.m.</i> Alsager<br>Welfare Centre, Yoxall Institute, Haslington<br><i>Alt. Tues. p.m.</i><br>Welfare Centre, Parish Hall, Odd Rode<br><i>2nd and 4th Wed. p.m.</i>                                                                                                                               |
| <b>DISTRICT No. 17b</b><br>M. James,<br>Sunfields, Sandylands,<br>Wistaston, Crewe                                                                        | CREWE M.B.<br>Warmingham                                                                                                                          | Wistaston                                                                                                                                                                                                                                                                                                                                                    |
|                                                                                                                                                           |                                                                                                                                                   | Tuberculosis Dispensary, Memorial Hospital,<br><i>Mon. a.m. and p.m.</i> Crewe<br><i>Thurs. a.m.</i> (Tel. Crewe 2525)                                                                                                                                                                                                                                       |
| <b>DISTRICT No. 18</b><br>E. S. Taylor,<br>76, Liverpool Road,<br>Sankey, Warrington<br>(Tel. Penketh 175)                                                | Antrobus<br>Appleton<br>Grappenhall                                                                                                               | Stockton Heath<br>Stretton                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                           |                                                                                                                                                   | Welfare Centre, Methodist Sunday School,<br><i>Alt. Mon. p.m.</i> Grappenhall<br>Welfare Centre, 55, Walton Road, Stockton<br><i>Alt. Mon. p.m.</i> Heath                                                                                                                                                                                                    |
| <b>DISTRICT No. 19</b><br>M. H. Jones,<br>29, Eagle Brow,<br>Lymm<br>(Tel. Lymm 277)                                                                      | Lymm U.D.<br>Carrington<br>High Legh                                                                                                              | Partington<br>Warburton                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                           |                                                                                                                                                   | Welfare Centre, 29, Eagle Brow, Lymm<br><i>Tue. p.m.</i> (Tel. Lymm 277)<br>Welfare Centre, St. Mary's Institute,<br><i>Alt. Thurs. p.m.</i> Partington<br>School Clinic, 29, Eagle Brow, Lymm<br><i>Mon.—Fri. a.m.</i> (Tel. Lymm 277)                                                                                                                      |
| <b>DISTRICT No. 20</b><br>M. Ross,<br>70, Chapel Road, Sale<br>H. Wingfield,<br>70, Chapel Road, Sale<br>W. Heron,<br>53, Hawthorn Road,<br>Manchester 21 | Sale M.B.<br>(St. Martin's, St. Mary's, and<br>Mersey Wards)<br>Sale M.B.<br>(Central, East & North Wards)<br>Sale M.B.<br>(South and West Wards) |                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                           |                                                                                                                                                   | Welfare Centre, 70, Chapel Road, Sale<br><i>Tues. and Thurs. p.m., 2nd Wed. p.m.</i><br>School Clinic, 70, Chapel Road, Sale<br><i>Mon.—Fri. a.m.</i> (Tel. Sale 1329)<br>Ante & Post Natal Clinic, 70, Chapel Road,<br><i>1st, 3rd and 4th Wed. p.m.</i> Sale<br>Artificial Sunlight Clinic, 70, Chapel Rd., Sale<br><i>Tues. and Fri. p.m. (suspended)</i> |
| <b>DISTRICT No. 21a</b><br>E. Edwards,<br>34 Avon Road,<br>Hale,<br>Altrincham                                                                            | Bowdon U.D.<br>Hale U.D.<br>Ashley                                                                                                                | Ringway<br>Rostherne<br>Tatton                                                                                                                                                                                                                                                                                                                               |
|                                                                                                                                                           |                                                                                                                                                   | Welfare Centre, Methodist Schoolroom,<br><i>Alt. Thurs. p.m.</i> Bowdon<br>School Clinic, 1, Hawthorn Road, Hale<br><i>Mon., Wed., Fri. p.m.</i><br>Tuberculosis Dispensary, General Hospital,<br><i>Mon. 6 p.m., Wed., Fri. a.m.</i> Altrincham                                                                                                             |
| <b>DISTRICT No. 21b</b><br>L. E. H. Tripp,<br>Sampford Brett,<br>Altrincham<br>(Tel. Altrincham 1884)                                                     | Altrincham M.B.<br>Agden<br>Bollington                                                                                                            | Dunham Massey<br>Millington                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                           |                                                                                                                                                   | School Clinic, Mountlands, Altrincham<br><i>Mon., Tues., Fri. a.m.</i><br>School Clinic, Homestead, Timperley<br><i>Wed. a.m.</i><br>Tuberculosis Dispensary, General Hospital,<br><i>Fri. p.m.</i> (Tel. Alt. 2078) Altrincham                                                                                                                              |
| <b>DISTRICT No. 22a</b><br>M. Bell,<br>Alma House,<br>Altrincham Road,<br>Wilmslow<br>(Tel. Wilmslow 2635)                                                | Alderley Edge U.D.<br>Chorley<br>Great Warford<br>Marshall                                                                                        | Mobberley<br>Wilmslow U.D.<br>(Hough, Dean Row,<br>Fulshaw and<br>Morley Wards)                                                                                                                                                                                                                                                                              |
|                                                                                                                                                           |                                                                                                                                                   | Welfare Centre, Alma House, Wilmslow<br><i>Thurs. p.m.</i> (Tel. Wilmslow 2635)<br>Welfare Centre, Hall Lane, Mobberley<br><i>Alt. Tues. p.m.</i><br>Welfare Institute, Church Institute, Alderley<br><i>Fri. p.m.</i> Edge<br>School Clinic, Alma House, Wilmslow<br><i>Tues., Thurs., Sat. a.m.</i> (Tel. Wilmslow 2635)                                   |
| <b>DISTRICT No. 22b</b><br>D. M. Bowers,<br>1, Albany Road,<br>Wilmslow                                                                                   | Wilmslow U.D.<br>(Styal and Handforth Wards)<br>Hazel Grove and Bramhall U.D.<br>(Woodford and Bramhall Wards)                                    |                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                           |                                                                                                                                                   | Welfare Centre, Wellbrook House, Bramhall<br><i>1st and 3rd Mon. p.m.</i><br>Welfare Centre, Conserv. Women's Club,<br><i>2nd and 4th Mon. p.m.</i> Handforth                                                                                                                                                                                                |

|                                                                                                                                                   | CIVIL PARISHES                                                                                                                                                                                                                         | CENTRES, CLINICS & DISPENSARIES                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DISTRICT No. 23</b><br>M. Spencer,<br>2, Elm Drive<br>Pownall Estate,<br>Macclesfield                                                          | MACCLESFIELD M.B. Mottram-St.-<br>Bosley Andrew<br>Chelford North Rode<br>Eaton Nether Alderley<br>Gawsworth Over Alderley<br>Henbury Prestbury<br>Hulme Walfield Siddington<br>Marton Snelson                                         | Welfare Centre, Wellington Road, Bollington<br><i>Alt. Thurs. p.m. (v. No. 28)</i><br>Tub. Disp., Gen. Infirmary, Macclesfield<br><i>Mon. and Fri. p.m. (Tel. M'field 2913)</i><br><br>Somerford Swettenham<br>Somerford Booths Withington                                                          |
| <b>DISTRICT No. 24</b><br>Esme Owen,<br>12 West Street,<br>Congleton<br>(Tel. Congleton 169)                                                      | Sandbach U.D. Brereton<br>Arclid Elton<br>Betchton Hassall<br>Bradwall Smallwood<br>Tetton                                                                                                                                             | Welfare Centre, Marriott House, Sandbach<br><i>Tues. p.m.</i><br>School Clinic, Marriott House, Sandbach<br><i>Wed. and Fri. p.m.</i>                                                                                                                                                               |
| <b>DISTRICT No. 25</b><br>G. F. Finger,<br>12, West Street,<br>Congleton<br>(Tel. Congleton 169)                                                  | CONGLETON M.B.<br>Moreton-cum-Alcumlow.<br>Newbold Astbury                                                                                                                                                                             | Welfare Centre, 12, West Street, Congleton<br><i>Mon p.m. (Tel. Congleton 169)</i><br>Tuberculosis Dispensary, Mem. Hospital<br><i>Fri. a.m. Congleton</i><br>Ante & Post Natal Clinic, 12, West Street,<br><i>2nd &amp; 4th Thurs., 1st Tues. p.m. Congleton</i>                                   |
| <b>DISTRICT No. 26a</b><br>M. B. Batty,<br>14, Parrswood Court,<br>Manchester 20                                                                  | Cheadle and Gatley U.D.<br>(Cheadle Hulme and Heald<br>Green Wards)                                                                                                                                                                    | School Clinic, All Saints' Parish Room,<br><i>Mon., Wed., Fri. p.m. Cheadle Hulme</i><br>Welfare Centre, Mission Hall, Cheadle Hulme<br><i>Alt. Tues. p.m.</i><br>Welfare Centre, Mission Hall, Adswold<br><i>1st and 3rd Mon. p.m.</i>                                                             |
| <b>DISTRICT No. 26b</b><br>E. Hardy,<br>4, Bird Hall Avenue,<br>Cheadle Hulme, Stockport                                                          | Cheadle and Gatley U.D.<br>(Cheadle and Gatley Wards)                                                                                                                                                                                  | School Clinic, Literary Institute, Cheadle<br><i>Mon., Wed. and Fri. a.m.</i><br>Welfare Centre Wesleyan Sunday School,<br><i>Alt. Tues. p.m. Cheadle</i>                                                                                                                                           |
| <b>DISTRICT No. 27</b><br>G. M. Bullough,<br>54, Mill Lane,<br>Hazel Grove, Stockport                                                             | Hazel Grove and Bramhall U.D.<br>(North and East Wards)                                                                                                                                                                                | Welfare Centre, 253, London Road,<br><i>Thurs. p.m. Hazel Grove</i><br>School Clinic, 253, London Rd., Hazel Grove<br><i>Tues. a.m., Fri. p.m.</i>                                                                                                                                                  |
| <b>DISTRICT No. 28</b><br>F. G. Brentnall,<br>Throstle's Nest Cottage,<br>Lyme Handley,<br>Disley, Stockport                                      | Bollington U.D. Macclesfield F'est<br>Adlington Poynton<br>Hurdfield Rainow<br>Kettleshulme Sutton<br>Lyme Handley Wildboarclough<br>Pott Shrigley Wincle<br>Welfare Centre, Lane Ends Club,<br><i>2nd &amp; 4th Wed. p.m. Sutton.</i> | Welfare Centre, Wellington Road, Bollington<br><i>Alt. Thurs. p.m. (v. No. 23)</i><br>School Clinic, Wellington Road, Bollington<br><i>Wed. a.m.</i><br>Welfare Centre, Methodist Sunday School,<br><i>Alt. Thurs. p.m. Poynton</i><br>School Clinic, Primary School, Poynton<br><i>Thurs. a.m.</i> |
| <b>DISTRICT No. 29a</b><br>S. Morris,<br>Slade Mount, Slade Lane,<br>Manchester 19                                                                | Bredbury and Romiley U.D.<br>(Bredbury Ward)                                                                                                                                                                                           | Welfare Centre, Congregational Sunday<br><i>Tues. a.m. and p.m. School, Bredbury</i>                                                                                                                                                                                                                |
| <b>DISTRICT No. 29b</b><br>M. Wilkinson,<br>5, Portland Place,<br>Mottram Road,<br>Stalybridge                                                    | Bredbury and Romiley U.D.<br>(Romiley and Compstall Wards)<br>STALYBRIDGE M.B.                                                                                                                                                         | Welfare Centre, Leyfield Avenue, Romiley<br><i>Thurs. p.m.</i><br>School Clinic, Leyfield Avenue, Romiley<br><i>Mon. p.m.</i><br>Tuberc. Dispens., Gt. Egerton St. Stockport<br><i>Tues. a.m. (Tel. Stockport 2204)</i>                                                                             |
| <b>DISTRICT No. 30</b><br>E. Ollerenshaw,<br>159, Talbot Road, Hyde<br>(Tel. Hyde 806)<br>B. Brewster,<br>Spout House Farm,<br>Strines, Stockport | DUKINFIELD M.B.<br>(East Ward)<br><br>DUKINFIELD M.B.<br>(Central and West Wards)                                                                                                                                                      | Welfare Centre, 212 Astley Street, Dukinfield<br><i>Wed. and Thurs. a.m. and p.m. (Tel. Ashton 1689)</i>                                                                                                                                                                                            |
| <b>DISTRICT No. 31</b><br>F. Spencer,<br>10, Allan Avenue,<br>Hyde.                                                                               | HYDE M.B. Longdendale U.D.<br>Tintwistle R.D.                                                                                                                                                                                          | Welfare Centre, St. Mary's Sunday School,<br><i>Alt. Thurs. p.m. Hollingworth</i><br>School Clinic, Council School, Hollingworth<br><i>Tues. a.m.</i><br>Tuberculosis Dispensary, Beeley Street, Hyde<br><i>Mon. a.m., Wed. 2 &amp; 6 p.m. (Tel. Hyde 557)</i>                                      |
| <b>DISTRICT No. 32</b><br>S. Dickson,<br>Bute House,<br>Marple Bridge,<br>Stockport<br>(Tel. Marple 177)                                          | Marple U.D. Disley R.D.<br><br>Welfare Centre, Meth. Sun. School,<br><i>2nd &amp; 4th Thurs. p.m. Marple Bridge.</i><br>Welfare Centre, Hartley House,<br><i>Alt. Tues. p.m. High Lane.</i>                                            | Welfare Centre, Houswifery Centre, Disley<br><i>Alt. Tues. p.m.</i><br>Welfare Centre, Meth. Sunday School, Marple<br><i>Wed. p.m.</i><br>School Clinic, Public Baths, Marple<br><i>Wed. a.m. (Tel. Marple 582)</i>                                                                                 |

## COUNTY MIDWIVES (66)

| No. | Name           | Address                                       | Telephone         |
|-----|----------------|-----------------------------------------------|-------------------|
| 1   | M. N. Parr     | 32, Waverley Road, Hoylake — — —              | Hoylake 2570      |
| 2   | S. E. Peacock  | 5, Broughton Avenue, West Kirby — — —         | Hoylake 2526      |
| 4   | M. Boothroyd   | 20, Larchwood Drive, Woodhey, Bcbington       | Rock Ferry 2303   |
| 5   | A. E. Hamer    | 105, Alport Lane, Bromborough — — —           | Bromborough 531   |
| 6   | M. Uytendhal   | 19, Bolton Road East, New Ferry — — —         | Rock Ferry 2301   |
| 7   | M. E. Wright   | Fernbank, 4, Bromborough Road, Bebington      | Rock Ferry 40     |
| 8   | R. Baines      | Sunnymede, Liverpool Road, Neston — — —       | Neston 325        |
| 9   | L. M. Bradshaw | Newlands, Berwick Gardens, Little Sutton      | Hooton 2138       |
| 10  | E. Butler      | Mersey View, Pooltown Road, Whitby            | E. Port 240       |
| 11  | V. E. Corson   | Dormy, Wilkinson Street, Ellesmere Port       | E. Port 146       |
| 12  | E. Evans,      | 85, Gracc Road, Ellesmere Port — — —          | E. Port 1188      |
| 13  | A. E. Williams | 6, York Road, Ellesmere Port — — —            | E. Port 329       |
| 14  | E. E. West     | 20, Halkyn Road, Chester — — —                | Chester 2274      |
| 15  | E. McAllister  | 73, Green Lane, Chester — — —                 | Christleton 37    |
| 17  | E. A. Cooke    | 13, Waterloo Road, Runcorn — — —              | Runcorn 2623      |
| 18  | G. Minshall    | 20, Leinster Street, Runcorn — — —            | Runcorn 2798      |
| 19  | E. Holt        | Brynton, Heath Road, Runcorn — — —            | Runcorn 2556      |
| 20  | B. Smith       | 34, Russell Road, Runcorn — — —               | Runcorn 2013      |
| 21  | J. Elliott     | 88, Knutsford Road, Grappenhall — — —         | Grappenhall 384   |
| 22  | A. J. Carroll  | 1, Stetchworth Road, Walton, Stockton Heath   | St'kton Heath 611 |
| 23  | N. Jones       | 71, East Avenue, Rudheath, Northwich          | Northwich 3020    |
| 23a | E. M. Lowe     | 13, Middlewich Road, Northwich — — —          | Northwich 2610    |
| 24  | A. Orme        | 95, Victoria Road, Northwich — — —            | Northwich 3025    |
| 25  | M. Court       | 117, Delamere Street, Over, Winsford — — —    | Winsford 2311     |
| 26  | A. E. Hough    | Beaumont, St. Ann's Road, Middlewich          | Middlewich 167    |
| 27  | E. A. Bimson   | 20, Gatefield Street, Crewe — — —             | Crewe 2239        |
| 28  | D. Broad       | 234, Hungerford Road, Crewe — — —             | Crewe 2495        |
| 29  | N. W. Brookes  | 41, Samuel Street, Crewe — — —                | Crewe 2826        |
| 30  | M. Kelly       | 45, Brooklyn Street, Crewe — — —              | Crewe 2875        |
| 31  | E. G. Williams | 282, Broad Street, Crewe — — —                | Crewe 2666        |
| 32  | M. E. Wood     | 81, Lord Street, Crewe — — —                  | Crewe 2825        |
| 32a | M. A. Slack    | 2, Leighton Street, off Underwood Lane, Crewe |                   |
| 33  | E. Jones       | 12, Well Lane, Alsager — — —                  | Alsager 223       |
| 34  | M. Stoddart    | 24, Brook Road, Lymm — — —                    | Lymm 581          |
| 36  | E. Gibson      | 93, Carrington Lane, Sale — — —               | Sale 4642         |
| 37  | H. Gilbody     | 192, Northenden Road, Sale Moor, Sale         | Sale 4313         |
| 38  | D. Lindley     | 65, Derbyshire Road South, Sale — — —         | Sale 4383         |
| 39  | K. McSweeney   | 27, Glebelands Road, Sale — — —               | Sale 1842         |
| 40  | A. Whittle     | 220, Manchester Rd., Broadheath, Altrincham   | Altrincham 1484   |
| 41  | S. Leigh       | 5, Poplar Avenue, Altrincham — — —            | Altrincham 0963   |
| 43  | M. A. Fittes   | Dunham Woodhouses, Dunham Massey              | Altrincham 0056   |
| 44  | L. Starkey     | 1, Bancroft Road, Hale — — —                  | Ringway 4653      |
| 45  | D. Harper      | Cranford, Bradwall Road, Sandbach — — —       | Sandbach 273      |
| 46  | A. A. Rowley   | 51, Swan Street, Congleton — — —              | Congleton 430     |
| 47  | R. H. Frost    | Brook Bank, Townsend Road, Congleton          | Congleton 429     |
| 48  | M. A. Lane     | 3, Vaudrey Crescent, Conglcton — — —          | Congleton 442     |
| 49  | C. Bayliss     | 94, Councillor Lane, Cheadle — — —            | Gatley 3797       |
| 49a | E. M. Newman   | 10, Madison Avenue, Cheadle Hulme — — —       | Ch'le Hulme 1261  |
| 50  | F. W. Hampson  | 335, London Road, Hazel Grove — — —           | Great Moor 3131   |
| 51  | S. P. Faulkner | 99, Hawthorn Street, Wilmslow — — —           | Wilmslow 2717     |
| 52  | E. Lloyd       | 26, Bridge Street, Macclesfield — — —         | Macclesfield 2715 |
| 54  | G. H. Robinson | 249, Peter Street, Macclesfield — — —         | Macclesfield 3321 |
| 55  | E. Fairclough  | 19, Nicholson Avenue, Macclesfield — — —      | Macclesfield 3322 |
| 56  | D. Tomlinson   | 7, Clegg Street, Macclesfield — — —           | Macclesfield 2073 |

**COUNTY MIDWIVES (contd.)**

| No. | Name            | Address                                   | Telephone        |
|-----|-----------------|-------------------------------------------|------------------|
| 57  | A. D. Hall      | 47, Taylor Street, Hollingworth —         | Mottram 214      |
| 58  | L. Purvey       | 184, Huddersfield Road, Stalybridge —     | Stalybridge 2483 |
| 59  | N. Robinson     | 6, Acres Lane, Stalybridge — —            | Stalybridge 2821 |
| 60  | F. Dent         | Plas-y-Garth, Wakefield Road, Stalybridge | Stalybridge 2281 |
| 62  | A. Lees         | 90, Astley Street, Dukinfield — —         | Ashton 1073      |
| 63  | A. E. Marten    | 218, Birch Lane, Dukinfield — —           | Stalybridge 2443 |
| 64  | L. Kitchen      | 7, Elm Grove, Hyde — — —                  | Hyde 789         |
| 65  | L. Sambrook     | 57, Woodfield Avenue, Hyde — —            | Hyde 786         |
| 66  | M. P. Turner    | 24, Lodge Lane, Flowery Field, Hyde —     | Hyde 798         |
| 66a | M. P. Schofield | Woodhaven, Woodend Lane, Hyde —           | Hyde 739         |

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|   |                |                                 |
|---|----------------|---------------------------------|
| — | M. E. Cottrell | Fern Bank, Weston Road, Weston, |
|   | (Relief)       | Runcorn                         |
| — | B. Gardiner    | 87, Ruskin Road, Crewe          |
|   | (Relief)       |                                 |
| — | D. Molyneux    | 29, Vicar's Cross, Chester      |
|   | (Relief)       |                                 |

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**DENTAL NURSES (7)**

|               |                                                   |
|---------------|---------------------------------------------------|
| D. Babington  | 211, Fog Lane, Didsbury, Levenshulme, Manchester. |
| D. Comyn      | Spring Villa, Upton Park, Chester.                |
| H. Howarth    | 700, Borough Road, Birkenhead                     |
| M. Ramsbottom | 11, Cranleigh Drive, Cheadle.                     |
| G. Rees       | 46, George's Crescent, Grappenhall, Warrington.   |
| E. Toft       | The Manor, Mickle Trafford, Chester.              |
| G. M. Watts   | 3, Highbury Road, Alexandra Park, Manchester.     |

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**DENTAL ATTENDANTS (5)**

|              |                                                   |
|--------------|---------------------------------------------------|
| I. M. Heys   | Lanresse, Queensgate, Castle, Northwich.          |
| D. Smith     | 59, Hoole Road, Chester.                          |
| P. Fairhurst | Brandreth, The Avenue, Alderley Edge, Manchester. |
| B. Major     | 5, Henry Street, Haslington, Crewe.               |
| W. Porter    | 4, Elm Road, Cheadle Heath, Stockport.            |

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Superintendent Clerk — — Vincent O'Connor.

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Offices—24, Nicholas Street, Chester. Telephone Chester 2305 (2 lines).

## PUBLIC VACCINATORS and POOR LAW MEDICAL OFFICERS.

### No. 1 (BUCKLOW) AREA.

#### District No. 1 (Altrincham).

|                 |                              |           |
|-----------------|------------------------------|-----------|
| Altrincham M.B. | Bowdon U.D.<br>Dunham Massey | Hale U.D. |
|-----------------|------------------------------|-----------|

Public Vaccinator } H. A. Logan, Manor House, Woodlands Road,  
Medical Officer } Altrincham.

#### District No. 2 (Knutsford South).

|                 |                          |                 |
|-----------------|--------------------------|-----------------|
| Bexton          | Marthall-cum-<br>Warford | Ollerton        |
| Peover Inferior | Toft                     | Peover Superior |
| Plumley         |                          |                 |

Public Vaccinator— } H. Bowring, Tithe House, Chelford Road,  
Medical Officer— } Knutsford.

#### District No. 3 (Knutsford North).

|                 |                 |                   |
|-----------------|-----------------|-------------------|
| Knutsford U.D.  | Agden           | Aston-by-Budworth |
| Bollington      | High Legh       | Mere              |
| Millington      | Pickmere        | Rostherne         |
| Tabley Inferior | Tabley Superior | Tatton            |

Public Vaccinator— } H. Bowring, Tithe House, Chelford Road,  
Medical Officer— } Knutsford.

#### District No. 4 (Lymm).

Lymm U.D.

Public Vaccinator— } F. Wraith, Footscray, Lymm.  
Medical Officer— }

#### District No. 5 (Sale).

|           |                         |            |
|-----------|-------------------------|------------|
| Sale M.B. | Carrington<br>Warburton | Partington |
|-----------|-------------------------|------------|

Public Vaccinator— } D. Connolly,\* Heathville, Northenden Road,  
Medical Officer— } Sale.

#### District No. 6 (Wilmslow).

|                    |               |        |
|--------------------|---------------|--------|
| Alderley Edge U.D. | Wilmslow U.D. | Ashley |
| Mobberley          | Ringway       |        |

Public Vaccinator— } A. Nowell,† Handforth Lodge, Handforth.  
Medical Officer— }

### No. 2 (MACCLESFIELD AND CONGLETON) AREA.

#### District No. 1 (Macclesfield).

Macclesfield M.B.

Public Vaccinator— } S. F. Clegg, Nuncham, Victoria Road,  
Medical Officer— } Macclesfield.

\* Acting for J. J. Cruickshank (with H.M. Forces).

† Acting for R. Bennett (with H.M. Forces).

**No. 2 (Macclesfield and Congleton) Area—Continued.****District No. 2 (Sutton and Rainow).**

|                     |            |              |
|---------------------|------------|--------------|
| Gawsworth           | Hurdsfield | Kettleshulme |
| Macclesfield Forest | Rainow     | Sutton       |
| Wildboardclough     | Wincle     |              |

Public Vaccinator— } A. C. Gillies, 195, Park Lane, Macclesfield.  
 Medical Officer— }

**District No. 3 (Alderley).**

|                 |               |            |
|-----------------|---------------|------------|
| Alderley Nether | Alderley Over | Chelford   |
| Chorley         | Henbury       | Siddington |
| Snelson         | Warford Great | Withington |

Public Vaccinator— } E. S. Evans, Roadside, Chelford, Crewe.  
 Medical Officer— }

**District No. 4 (Bollington).**

|                    |               |              |
|--------------------|---------------|--------------|
| Bollington U.D.    | Disley R.D.   | Lyme Handley |
| Mottram St. Andrew | Pott Shrigley | Prestbury    |

Public Vaccinator— } G. Coope, The Waterhouse, Bollington, nr.  
 Medical Officer— } Macclesfield.

**District No. 5 (Eaton and Marton).**

|        |            |        |
|--------|------------|--------|
| Bosley | Eaton      | Marton |
|        | North Rode |        |

Public Vaccinator— } R. B. Davidson, Damian House, Congleton.  
 Medical Officer— }

**District No. 6 (Poynton).**

|           |                    |          |
|-----------|--------------------|----------|
| Adlington | Poynton-with-Worth | Woodford |
|-----------|--------------------|----------|

Public Vaccinator— } N. Cox, London Road, Poynton, nr. Stockport.  
 Medical Officer— }

**District No. 7 (Congleton).**

|                 |                  |              |
|-----------------|------------------|--------------|
| Congleton M.B.  | Hulme Walfield   | Moreton-cum- |
| Newbold Astbury | Somerford        | Alcumlow     |
|                 | Somerford Booths |              |

Public Vaccinator }  
 Medical Officer } A. J. Pirie, Moody Hall, Congleton.

**District No. 8 (Sandbach).**

|               |        |          |
|---------------|--------|----------|
| Sandbach U.D. | Arclid | Betchton |
| Bradwall      | Elton  | Hassall  |
| Smallwood     | Tetton |          |

Public Vaccinator— } A. Henderson, West View, Sandbach.  
 Medical Officer— }

**District No. 9 (Alsager).**

|              |               |          |
|--------------|---------------|----------|
| Alsager U.D. | Church Lawton | Odd Rode |
|--------------|---------------|----------|

Public Vaccinator— A. Henderson, West View, Sandbach  
 Medical Officer— G. Bates, Lawton Road, Alsager.

**District No. 10 (Church Hulme).**

|          |              |         |
|----------|--------------|---------|
| Brereton | Church Hulme | Cranage |
| Goostrey | Swettenham   | Twemlow |

Public Vaccinator— } L. J. Picton, Saddler's Close, Holmes Chapel.  
 Medical Officer— }

**No. 3 (NANTWICH) AREA.****District No. 1 (Audlem).**

|                       |          |                     |
|-----------------------|----------|---------------------|
| Audlem                | Buerton  | Coole Pilate        |
| Dodcot-cum-           | Hankelow | Newhall (Part of *) |
| Wilkesley (Part of *) |          |                     |

Public Vaccinator— } G. C. Thornton, Beech House, Audlem, Crewe  
 Medical Officer— }

**District No. 2 (Bunbury).**

|          |            |            |
|----------|------------|------------|
| Alraham  | Bickerton  | Bulkeley   |
| Bunbury  | Calvey     | Egerton    |
| Haughton | Peckforton | Ridley     |
| Spurstow | Wardle     | Wettenhall |

Public Vaccinator— } M. M. F. Arthur, Birchfield, Bunbury.  
 Medical Officer— }

**District No. 3 (Crewe North).**

|                      |              |                 |
|----------------------|--------------|-----------------|
| Crewe M.B. (North †) | Leighton     | Minshull Vernon |
| Warmingham           | Woolstanwood |                 |

Public Vaccinator— } M. Parkes, Helmsville, Crewe.  
 Medical Officer— }

**District No. 4 (Crewe South).**

|                      |      |                 |
|----------------------|------|-----------------|
| Crewe M.B. (South †) | Rope | Shavington-cum- |
| Wistaston            |      | Gresty          |

Public Vaccinator— } W. G. Murray, 144, Nantwich Road, Crewe.  
 Medical Officer— }

**District No. 5 (Haslington).**

|            |         |             |
|------------|---------|-------------|
| Barthomley | Basford | Crewe Rural |
| Haslington | Weston  |             |

Public Vaccinator— } W. L. English, High Street, Haslington, Crewe.  
 Medical Officer— }

**District No. 6 (Nantwich).**

|               |               |                     |
|---------------|---------------|---------------------|
| Nantwich U.D. | Acton         | Aston-juxta-Mondrum |
| Baddington    | Batherton     | Brindley            |
| Burland       | Cholmondeston | Church Minshull     |
| Edleston      | Faddiley      | Henhull             |
| Hurleston     | Poole         | Stoke               |
| Willaston     | Worleston     |                     |

Public Vaccinator— } S. Johnstone, Kiltarn House, Nantwich.  
 Medical Officer— }

\* Such part of these Parishes as lies East of a line formed by the Barnett Brook from the County boundary to its junction with the River Weaver, and thence by the River Weaver to the boundary of the Parish of Broomhall.

† Such part of Crewe M.B. as lies North of a line formed by West Street, Hightown, Victoria Street, Market Street, Earl Street, Hungerford Road.

‡ Such part of Crewe M.B. as lies South of the line defined in note † above.

No. 3 (Nantwich) Area—*Continued.***District No. 7 (Wrenbury).**

|                  |                    |              |
|------------------|--------------------|--------------|
| Baddiley         | Broomhall          | Cholmondeley |
| Chorley          | Dodcot-cum-        | Marbury-cum- |
| Newhall (Part *) | Wilkesley (Part *) | Quoisley     |
| Norbury          | Sound              | Wirswall     |
| Woodcott         | Wrenbury-cum-Frith |              |

Public Vaccinator— } N. Patterson, Stanley House, Wrenbury.  
 Medical Officer— }

**District No. 8 (Wybunbury).**

|               |            |            |
|---------------|------------|------------|
| Austerson     | Blakenhall | Bridgemere |
| Checkley-cum- | Chorlton   | Doddington |
| Wrinehill     | Hatherton  | Hough      |
| Hunsterson    | Lea        | Stapeley   |
| Walgherton    | Wybunbury  |            |

Public Vaccinator— } O. H. Blacklay, 148, Hospital Street, Nantwich.  
 Medical Officer— }

**No. 4 (NORTHWICH AND RUNCORN) AREA.****District No. 1 (Northwich No. 1).**

|                            |                |         |
|----------------------------|----------------|---------|
| Northwich U.D.             | Lostock Gralam | Marbury |
| (Witton & Northwich Wards) |                |         |
| Marston                    | Wincham        |         |

Public Vaccinator— } J. B. Fulton, 162, Witton Street, Northwich  
 Medical Officer— }

**District No. 2 (Northwich No. 2).**

|                             |          |         |
|-----------------------------|----------|---------|
| Northwich U.D.              | Anderton | Barnton |
| (Castle & Winnington Wards) |          |         |
| Comberbach                  | Hartford |         |

Public Vaccinator— } J. W. Craw, Rose Bank, Chester Road, Northwich  
 Medical Officer— }

**District No. 3 (Winsford).**

|               |          |                 |
|---------------|----------|-----------------|
| Winsford U.D. | Darnhall | Little Budworth |
| Marton        | Moulton  |                 |

Public Vaccinator— } W. N. Leak, Dingle House, Winsford.  
 Medical Officer — }

**District No. 4 (Weaverham).**

|          |                |            |
|----------|----------------|------------|
| Acton    | Crowton        | Cuddington |
| Delamere | Little Leigh   | Oakmere    |
|          | Weaverham-cum- | Norley     |
|          | Milton         |            |

Public Vaccinator— } W. G. Shaw, Ivy House, Weaverham.  
 Medical Officer— }

**District No. 5 (Middlewich).**

|                 |            |             |
|-----------------|------------|-------------|
| Middlewich U.D. | Allostock  | Bostock     |
| Byley           | Davenham   | Lach Dennis |
| Nether Peover   | Rudheath   | Sproston    |
| Stanthorne      | Whatecroft | Wimboldsley |

Public Vaccinator— } J. Murphy, The Beeches, Middlewich  
 Medical Officer— }

\* Such part of these Parishes as lies West of the line defined in note \* on page 16.

**No. 4 (Northwich & Runcorn) Area—Continued.****District No. 6 (Runcorn).**

|                    |                                           |        |
|--------------------|-------------------------------------------|--------|
| Runcorn U.D.       | Aston                                     | Halton |
| Norton             | Sutton                                    |        |
| Public Vaccinator— | } J. B. Murphy, 1, Queen Street, Runcorn. |        |
| Medical Officer—   |                                           |        |

**District No. 7 (Budworth).**

|                    |                                                      |                 |
|--------------------|------------------------------------------------------|-----------------|
| Antrobus           | Appleton                                             | Budworth, Great |
| Daresbury          | Dutton                                               | Grappenhall     |
| Hatton             | Moore                                                | Preston Brook   |
| Stockton Heath     | Stretton                                             | Walton          |
|                    | Whitley                                              |                 |
| Public Vaccinator— | } J. W. Crowther, * Viewfield, Stretton, Warrington. |                 |
| Medical Officer—   |                                                      |                 |

**District No. 8 (Frodsham).**

|                    |                                               |        |
|--------------------|-----------------------------------------------|--------|
| Alvanley           | Frodsham                                      | Helsby |
| Kingsley           | Manley                                        |        |
| Public Vaccinator— | H. H. James, The Knoll, Frodsham.             |        |
| Medical Officer—   | H. B. Ellison, Brentwood, Red Lane, Frodsham. |        |

**District No. 9 (Tarporeley).**

|                    |                                           |          |
|--------------------|-------------------------------------------|----------|
| Rushton            | Tarporeley                                | Utkinton |
| Public Vaccinator— | } P. A. Campbell, Glenthorne, Tarporeley. |          |
| Medical Officer—   |                                           |          |

**No. 5 (TARVIN) AREA.****District No. 1 (Hoole).**

|                      |                                       |                   |
|----------------------|---------------------------------------|-------------------|
| Hoole U.D.           | Bache                                 | Backford          |
| Barrow-by-Tarvin     | Bridge Trafford                       | Caughall          |
| Chorlton-by-Backford | Christleton                           | Croughton         |
| Dunham-on-the-Hill   | Elton                                 | Great Boughton    |
| Guilden Sutton       | Hapsford                              | Hoole Village     |
| Huntington           | Little Stanney                        | Littleton         |
| Moston               | Picton                                | Rowtor            |
| Saighton             | Stoke                                 | Thornton-le-Moors |
| Upton-by-Chester     | Wervin                                | Wimbolds Trafford |
| Public Vaccinator—   | } W. J. A. Russell, The Limes, Hoole. |                   |
| Medical Officer—     |                                       |                   |

**District No. 2 (Chester Rural).**

|                    |                                                             |                 |
|--------------------|-------------------------------------------------------------|-----------------|
| Aldford            | Buerton                                                     | Capenhurst      |
| Chester Castle     | Churton Heath                                               | Claverton       |
| Dodleston          | Eaton                                                       | Eccleston       |
| Great Saughall     | Lea-by-Backford                                             | Lea Newbold     |
| Ledsham            | Little Saughall                                             | Lower Kinnerton |
| Marlston-cum-Lache | Mollington                                                  | Poulton         |
| Puddington         | Pulford                                                     | Shotwick        |
| Shotwick Park      | Woodbank                                                    |                 |
| Public Vaccinator— | } O. E. Williams, Old Bars House, Foregate Street, Chester. |                 |
| Medical Officer—   |                                                             |                 |

**District No. 3 (Tarvin).**

|                    |                            |                   |
|--------------------|----------------------------|-------------------|
| Ashton             | Bruen Stapleford           | Burton-by-Tarvin  |
| Clotton Hoofield   | Duddon                     | Foulk Stapleford  |
| Hockenhull         | Horton-cum-Peel            | Huxley            |
| Iddenshall         | Kelsall                    | Mouldsworth       |
| Pryor's Hayes      | Tarvin                     | Tilstone Fearnall |
| Tiverton           | Willington                 |                   |
| Public Vaccinator— | } C. R. Fielding, Kelsall. |                   |
| Medical Officer—   |                            |                   |

\* Acting for C. E. W. Bower (with H.M. Forces).

**No. 5 (Tarvin) Area—Continued.****District No. 4 (Tattenhall).**

|                |                      |                 |
|----------------|----------------------|-----------------|
| Aldersey       | Beeston              | Broxton         |
| Burwardsley    | Chowley              | Clutton         |
| Cotton Abbots  | Cotton Edmunds       | Golborne Bellow |
| Golborne David | Handley              | Harthill        |
| Hatton         | Newton-by-Tattenhall | Tattenhall      |
|                | Waverton             |                 |

Public Vaccinator— } M. Dwyer, Church Bank, Tattenhall.  
 Medical Officer— }

**District No. 5 (Farndon).**

|                  |                    |                    |
|------------------|--------------------|--------------------|
| Barton           | Caldecott          | Carden             |
| Church Shocklach | Churton-by-Aldford | Churton-by-Farndon |
| Coddington       | Crewe-by-Farndon   | Edgerley           |
| Farndon          | Grafton            | Horton-by-Malpas   |
| Kings Marsh      | Shocklach Oviatt   | Stretton-by-Malpas |
|                  | Tilston-by-Malpas  |                    |

Public Vaccinator— } J. Alexander, Holly Bank, Farndon.  
 Medical Officer— }

**District No. 6 (Malpas).**

|                   |                    |                |
|-------------------|--------------------|----------------|
| Agden             | Bickley            | Bradley        |
| Chidlow           | Chorlton-by Malpas | Cuddington-by- |
| Duckington        | Edge               | Malpas         |
| Hampton           | Larkton            | Macefen        |
| Malpas            | Newton-by-Malpas   | Oldcastle      |
| Overton-by-Malpas | Stockton           | Threapwood     |
| Tushingham-cum-   | Wigland            | Wychough       |
| Grindley          |                    |                |

Public Vaccinator— } L. T. Pollard, Prospect House, Malpas.  
 Medical Officer— }

**No. 6 (WIRRAL) AREA.****District No. 1 (Bebington).**

Bebington M.B.

Public Vaccinator— } J. W. Cowen, 36, Heath Road, Bebington.  
 Medical Officer— }

**District No. 2 (Neston and Wirral).**

Neston U.D. Wirral U.D.

Public Vaccinator— } A. Simpson,\* Parkgate Road, Neston  
 Medical Officer— }

**District No. 3 (Hoylake).**

Hoylake U.D.

Public Vaccinator— P. B. Pinkerton,† Stonehive, Grange Road, West Kirby.

Medical Officer— W. M. Brown,† 2, Park Road, West Kirby.

**District No. 4 (Ellesmere Port).**

Ellesmere Port U.D.

Public Vaccinator— } R. F. Gerrard, 113, Station Road, Ellesmere  
 Medical Officer— } Port.

\* Acting for R. L. Turner (with H.M. Forces).

† Acting for G. H. Brown (with H.M. Forces).

**No. 7 (STALYBRIDGE AND DUKINFIELD) AREA.****District No. 1 (Stalybridge No. 1).**

Stalybridge M.B. (Part of \*)

Public Vaccinator—W. E. C. Thomas, Bank House, Stalybridge.

Medical Officer—J. A. Jolley, 60, Grosvenor Street, Stalybridge.

**District No. 2 (Stalybridge No. 2).**

Stalybridge M.B. (Part of †)

Public Vaccinator— } W. E. C. Thomas, Bank House, Stalybridge.

Medical Officer— }

**District No. 3 (Dukinfield).**

Dukinfield M.B.

Public Vaccinator— } Gladys Greenhalgh Lowe, ‡ Sandham House,  
Medical Officer— } Dukinfield.**District No. 4 (Longdendale).**

Longdendale U.D. Tintwistle R.D.

Public Vaccinator— } E. Talbot, Prospect House, Mottram.

Medical Officer— }

**No. 8 (HYDE AND CHEADLE) AREA.****District No. 1 (Hyde).**

Hyde M.B.

Public Vaccinator— } M. W. Paterson, Norbury House, Hyde.  
Medical Officer— }**District No. 2 (Cheadle).**

Cheadle and Gatley U.D.

Public Vaccinator— } T. S. Hanlin, 26, Wilmslow Road, Cheadle.  
Medical Officer— }**District No. 3 (Hazel Grove).**

Hazel Grove and Bramhall U.D.

Public Vaccinator— } M. V. Shanahan, 267, London Road, Hazel  
Medical Officer— } Grove.**District No. 4 (Bredbury).**

Bredbury and Romiley U.D.

Public Vaccinator— } P. V. Cant, Woodley, nr. Stockport.  
Medical Officer— }**District No. 5a (Marple No. 1).**

Marple U.D. (excluding Ludworth Ward).

Public Vaccinator— } W. A. Jackson, Glengarth, Marple.  
Medical Officer— }**District No. 5b (Marple No. 2).**

Marple U.D. (Ludworth Ward).

Public Vaccinator— } A. G. Hastings, Overdale, Station Road,  
Medical Officer— } Marple.

\* The part lying on the North-West side of the River Tame.

† The part lying on the South-East side of the River Tame.

‡ Acting for D. Macfie (with H.M. Forces).

## VACCINATION OFFICERS and REGISTRARS

(1931 populations of districts as constituted 1/4/39 are given in brackets)

### AREA A—BUCKLOW.

#### District No. 1—Altrincham (45043).

|                     |    |                                                 |                  |       |
|---------------------|----|-------------------------------------------------|------------------|-------|
| Altrincham M.B.     | .. | (29353)                                         | Ashley .. ..     | (359) |
| Bowdon U.D.         | .. | (3341)                                          | Dunham Massey .. | (716) |
| Hale U.D.           | .. | (11011)                                         | Ringway .. ..    | (263) |
| Vaccination Officer | }  | Mrs. A. Shaw,* 5, Springfield Road, Altrincham. |                  |       |
| Registrar           |    |                                                 |                  |       |

#### District No. 2—Knutsford (20062).

|                      |    |                                                            |                    |       |
|----------------------|----|------------------------------------------------------------|--------------------|-------|
| Knutsford U.D.       | .. | (6173)                                                     | Partington .. ..   | (816) |
| Lymm U.D.            | .. | (5637)                                                     | Peover Inferior .. | (100) |
| Agden .. ..          | .. | (87)                                                       | Peover Superior .. | (617) |
| Aston-by-Budworth    | .. | (364)                                                      | Pickmere .. ..     | (320) |
| Bcxtton .. ..        | .. | (14)                                                       | Plumley .. ..      | (459) |
| Bollington ..        | .. | (174)                                                      | Rostherne .. ..    | (284) |
| High Legh ..         | .. | (688)                                                      | Tabley Inferior .. | (117) |
| Marthall-cum-Warford | .. | (626)                                                      | Tabley Superior .. | (351) |
| Mere .. ..           | .. | (379)                                                      | Tatton .. ..       | (61)  |
| Millington ..        | .. | (258)                                                      | Toft .. ..         | (156) |
| Mobberley ..         | .. | (1753)                                                     | Warburton .. ..    | (354) |
| Ollerton .. ..       | .. | (274)                                                      |                    |       |
| Vaccination Officer  | }  | Mrs. S. A. Fairbrother,† 23, St. John's Avenue, Knutsford. |                    |       |
| Registrar            |    |                                                            |                    |       |

#### District No. 3—Sale (28575).

|                      |    |                                                      |                  |       |
|----------------------|----|------------------------------------------------------|------------------|-------|
| Sale M.B.            | .. | (28071)                                              | Carrington .. .. | (504) |
| Vaccination Officer— | }  | Mrs. D. Howard,§ Register Office, School Road, Sale. |                  |       |
| Registrar—           |    |                                                      |                  |       |

#### District No. 4—Wilmslow (15235).

|                     |    |                                                 |                  |         |
|---------------------|----|-------------------------------------------------|------------------|---------|
| Alderley Edge U.D.  | .. | (3279)                                          | Wilmslow U.D. .. | (11956) |
| Vaccination Officer | }  | Mabel Dawson,† Bank Square Buildings, Wilmslow. |                  |         |
| Registrar           |    |                                                 |                  |         |

### AREA B—MACCLESFIELD.

#### District No. 1—Congleton (14666).

|                     |    |                                       |  |  |
|---------------------|----|---------------------------------------|--|--|
| Congleton M.B...    | .. | (14666)                               |  |  |
| Vaccination Officer | }  | S. A. Bevan, 8, Park View, Congleton. |  |  |
| Registrar           |    |                                       |  |  |

#### District No. 2 (a)—Macclesfield (a) (21936).

|                     |    |        |                       |        |
|---------------------|----|--------|-----------------------|--------|
| Bollington U.D.     | .. | (5062) | Mottram-St.-Andrew .. | (526)  |
| Adlington ..        | .. | (687)  | Nether Alderley ..    | (757)  |
| Bosley .. ..        | .. | (359)  | North Rodc .. ..      | (268)  |
| Chelford .. ..      | .. | (341)  | Over Alderley .. ..   | (332)  |
| Chorley .. ..       | .. | (376)  | Pott Shrigley .. ..   | (441)  |
| Eaton .. ..         | .. | (239)  | Poynton .. ..         | (3944) |
| Gawsworth ..        | .. | (668)  | Prestbury .. ..       | (1103) |
| Great Warford ..    | .. | (882)  | Rainow .. ..          | (1109) |
| Henbury .. ..       | .. | (404)  | Siddington .. ..      | (441)  |
| Hurdsfield ..       | .. | (428)  | Snelson .. ..         | (200)  |
| Kettleshulme ..     | .. | (346)  | Sutton .. ..          | (1404) |
| Lyme Handley ..     | .. | (211)  | Wildboarelough ..     | (169)  |
| Macclesfield Forest | .. | (125)  | Wincle .. ..          | (208)  |
| Marton .. ..        | .. | (249)  | Withington .. ..      | (656)  |

Vaccination Officer—G. B. Sturley, Relief Office, Lyme Terrace, Poynton.  
Registrar—M. A. Bevan, Old County Police Buildings, Macclesfield.

\*Temp. from 1.10.44, during absence of W. Fryer with H.M. Forces.

†Temp. from 11.7.42, during absence of R. G. Rathbone with H.M. Forces.

‡Temp. from 1.3.45, during Mrs. Shaw's service for No. 1 District.

§Registrar from 1.9.43.

**Area B—Macclesfield—Continued.****District No. 2 (b)—Macclesfield (b) (35552).**

Macclesfield M. B. .. (35552)

Vaccination Officer—A. Millward, 10, Waterloo Street West, Macclesfield.

Registrar—M. A. Bevan, Old County Police Buildings, Macclesfield.

**AREA C—CREWE.****District No. 1 (a)—Crewe (a) (48321).**

Crewe M.B. .. (48321)

Vaccination Officer } A. W. Highet,\* 1, Gatefield Street, Crewe.

Registrar }

**District No. 1 (b)—Crewe (b) (7550).**

|                       |        |                    |        |
|-----------------------|--------|--------------------|--------|
| Barthomley .. ..      | (257)  | Shavington .. ..   | (1563) |
| Basford .. ..         | (177)  | Warmingham .. ..   | (202)  |
| Crewe (Rural) .. ..   | (177)  | Weston .. ..       | (490)  |
| Haslington .. ..      | (2882) | Wistaston .. ..    | (1260) |
| Leighton .. ..        | (137)  | Woolstanwood .. .. | (81)   |
| Minshull Vernon .. .. | (324)  |                    |        |

Vaccination Officer—C. Griffiths, 1, Gatefield Street, Crewe.

Registrar—A. W. Highet,\* 1, Gatefield Street, Crewe.

**District No. 2 (a)—Nantwich (a) (16361).**

|                              |        |                  |        |
|------------------------------|--------|------------------|--------|
| Nantwich U.D. .. ..          | (8639) | Edleston .. ..   | (60)   |
| Acton .. ..                  | (206)  | Faddiley .. ..   | (211)  |
| Aston-juxta-Mondrum .. ..    | (139)  | Hatherton .. ..  | (287)  |
| Austerson .. ..              | (50)   | Henhull .. ..    | (97)   |
| Baddiley .. ..               | (219)  | Hough .. ..      | (299)  |
| Baddington .. ..             | (104)  | Hunston .. ..    | (175)  |
| Batherton .. ..              | (53)   | Hurleston .. ..  | (110)  |
| Blakenhall .. ..             | (178)  | Lea .. ..        | (37)   |
| Bridgemere .. ..             | (149)  | Poole .. ..      | (114)  |
| Brindley .. ..               | (187)  | Rope .. ..       | (92)   |
| Burland .. ..                | (595)  | Stapeley .. ..   | (510)  |
| Checkley-cum-Wrinehill .. .. | (235)  | Stoke .. ..      | (213)  |
| Cholmondeston .. ..          | (158)  | Walgherton .. .. | (159)  |
| Chorlton .. ..               | (76)   | Willaston .. ..  | (1664) |
| Church Minshull .. ..        | (265)  | Worleston .. ..  | (370)  |
| Doddington .. ..             | (66)   | Wybunbury .. ..  | (644)  |

Vaccination Officer } W. Sutton, 1b, Hospital Street, Nantwich.

Registrar }

**District No. 2 (b)—Nantwich (b) (8597).**

|                             |        |                            |       |
|-----------------------------|--------|----------------------------|-------|
| Alraham .. ..               | (436)  | Haughton .. ..             | (150) |
| Audlem .. ..                | (1346) | Marbury-cum-Quoisley .. .. | (282) |
| Bickerton .. ..             | (259)  | Newhall .. ..              | (645) |
| Broomhall .. ..             | (184)  | Norbury .. ..              | (271) |
| Buerton .. ..               | (421)  | Peckforton .. ..           | (161) |
| Bulkeley .. ..              | (120)  | Ridley .. ..               | (160) |
| Bunbury .. ..               | (910)  | Sound .. ..                | (243) |
| Calvey .. ..                | (270)  | Spurstow .. ..             | (333) |
| Cholmondeley .. ..          | (278)  | Wardle .. ..               | (140) |
| Chorley .. ..               | (162)  | Wettenhall .. ..           | (186) |
| Coole Pilate .. ..          | (52)   | Wirswall .. ..             | (158) |
| Dodcott-cum-Wilkesley .. .. | (547)  | Woodcott .. ..             | (18)  |
| Egerton .. ..               | (101)  | Wrenbury .. ..             | (589) |
| Hankelow .. ..              | (175)  |                            |       |

Vaccination Officer—F. E. Davenport, 58, The Crofts, Nantwich.

Registrar—W. Sutton, 1b, Hospital Street, Nantwich.

\*From 1.10.44.

**District No. 3—Sandbach (21995).**

|                     |        |                        |        |
|---------------------|--------|------------------------|--------|
| Alsager U.D. .. ..  | (2852) | Hassall .. ..          | (318)  |
| Sandbach U.D. .. .. | (8267) | Hulme Walfield .. ..   | (61)   |
| Arclid .. ..        | (306)  | Moreton .. ..          | (130)  |
| Betchton .. ..      | (614)  | Newbold Astbury .. ..  | (546)  |
| Bradwall .. ..      | (242)  | Odd Rode .. ..         | (3307) |
| Brereton .. ..      | (550)  | Smallwood .. ..        | (615)  |
| Church Hulme .. ..  | (1143) | Somerford .. ..        | (102)  |
| Church Lawton .. .. | (874)  | Somerford Booths .. .. | (162)  |
| Cranage .. ..       | (475)  | Swettenham .. ..       | (279)  |
| Elton .. ..         | (161)  | Tetton .. ..           | (255)  |
| Goostrey .. ..      | (629)  | Twemlow .. ..          | (107)  |

Vaccination Officer } S. A. Bevan,\* 8, Park View, Congleton.  
Registrar

**AREA D—NORTHWICH.****District No. 1—Northwich (37756).**

|                      |         |                      |        |
|----------------------|---------|----------------------|--------|
| Northwich U.D. .. .. | (20827) | Lach Dennis .. ..    | (193)  |
| Acton .. ..          | (551)   | Little Leigh .. ..   | (422)  |
| Allostock .. ..      | (436)   | Lostock Gralam .. .. | (1095) |
| Anderton .. ..       | (329)   | Marbury .. ..        | (37)   |
| Barnton .. ..        | (3198)  | Marston .. ..        | (530)  |
| Comberbach .. ..     | (481)   | Nether Peover .. ..  | (200)  |
| Crowton .. ..        | (474)   | Rudheath .. ..       | (2728) |
| Cuddington .. ..     | (1100)  | Weaverham .. ..      | (2714) |
| Hartford .. ..       | (1424)  | Wincham .. ..        | (1017) |

Vaccination Officer } S. S. Trevor, Winnington Hill, Northwich.  
Registrar

**District No. 2—Winsford (26454).**

|                       |         |                   |        |
|-----------------------|---------|-------------------|--------|
| Middlewich U.D. .. .. | (5857)  | Moulton .. ..     | (1223) |
| Winsford U.D. .. ..   | (11346) | Oakmere .. ..     | (455)  |
| Bostock .. ..         | (156)   | Rushton .. ..     | (503)  |
| Byley .. ..           | (191)   | Sproston .. ..    | (210)  |
| Darnhall .. ..        | (228)   | Stanthorne .. ..  | (169)  |
| Davenham .. ..        | (1740)  | Tarporley .. ..   | (1382) |
| Delamere .. ..        | (1114)  | Utkinton .. ..    | (586)  |
| Little Budworth .. .. | (530)   | Whatcroft .. ..   | (119)  |
| Marton .. ..          | (500)   | Wimboldsley .. .. | (145)  |

Vaccination Officer } O. Parry, Mayfield, St. George's Road, Winsford.  
Registrar

\* Temporarily during absence of A. G. Skellern (with H.M. Forces).

**AREA E—RUNCORN.****District No. 1—Stockton Heath (15376).**

|                     |                                              |                      |        |
|---------------------|----------------------------------------------|----------------------|--------|
| Antrobus .. ..      | (682)                                        | Moore .. ..          | (158)  |
| Appleton .. ..      | (1196)                                       | Preston Brook .. ..  | (397)  |
| Daresbury .. ..     | (319)                                        | Stockton Heath .. .. | (6110) |
| Dutton .. ..        | (546)                                        | Stretton .. ..       | (371)  |
| Grappenhall .. ..   | (2742)                                       | Walton .. ..         | (1301) |
| Great Budworth.. .. | (447)                                        | Whitley .. ..        | (510)  |
| Halton .. ..        | (297)                                        |                      |        |
| Vaccination Officer | } A. J. Massey, 33, Fairfield Road, Stockton |                      |        |
| Registrar           |                                              | Heath.               |        |

**District No. 2—Runcorn (34791).**

|                     |                                                 |                |        |
|---------------------|-------------------------------------------------|----------------|--------|
| Runcorn U.D. .. ..  | (22587)                                         | Kingsley .. .. | (1456) |
| Alvanley .. ..      | (287)                                           | Manley .. ..   | (840)  |
| Aston .. ..         | (256)                                           | Norley .. ..   | (871)  |
| Frodsham .. ..      | (4703)                                          | Norton .. ..   | (158)  |
| Halton .. ..        | (1020)                                          | Sutton .. ..   | (631)  |
| Helsby .. ..        | (1982)                                          |                |        |
| Vaccination Officer | } H. V. Davies, Council Offices, Waterloo Road, |                |        |
| Registrar           |                                                 | Runcorn.       |        |

**AREA F—HYDE.****District No. 1—Stalybridge (31515).**

|                        |                                                 |                        |        |
|------------------------|-------------------------------------------------|------------------------|--------|
| Stalybridge M.B. .. .. | (24978)                                         | Longdendale U.D. .. .. | (5145) |
| Tintwistle R.D. .. ..  | (1392)                                          |                        |        |
| Vaccination Officer    | } N. Potts, Union Bank Chambers, Market Street, |                        |        |
| Registrar              |                                                 | Stalybridge.           |        |

**District No. 2—Hyde (32313).**

|                     |                                     |  |  |
|---------------------|-------------------------------------|--|--|
| Hyde M.B. .. ..     | (32313)                             |  |  |
| Vaccination Officer | } H. Morton, 30 Market Place, Hyde. |  |  |
| Registrar           |                                     |  |  |

**District No. 3—Dukinfield (19385).**

|                       |                                      |  |  |
|-----------------------|--------------------------------------|--|--|
| Dukinfield M.B. .. .. | (19385)                              |  |  |
| Vaccination Officer   | } H. Morton, 30, Market Place, Hyde. |  |  |
| Registrar             |                                      |  |  |

**AREA G—NORTH EAST CHESHIRE.****District No. 1—Bredbury (11690).**

|                                                                       |  |  |  |
|-----------------------------------------------------------------------|--|--|--|
| Bredbury and Romiley U.D. (11690)                                     |  |  |  |
| Vaccination Officer—H. Whalley, Public Assistance Office, Shaw Heath, |  |  |  |
| Stockport.                                                            |  |  |  |
| Registrar—E. Love, Council Offices, Bredbury.                         |  |  |  |

**District No. 2—Hazel Grove (26880).**

|                                  |                                            |             |               |
|----------------------------------|--------------------------------------------|-------------|---------------|
| Hazel Grove and<br>Bramhall U.D. | .. (13178)                                 | Marple U.D. | .. .. (11088, |
| Vaccination Officer              | } F. Ardern, Council Offices, Hazel Grove. | Disley R.D. | .. .. (2614)  |
| Registrar                        |                                            |             |               |

**District No. 3—Cheadle (18535).**

|                                                              |  |  |  |
|--------------------------------------------------------------|--|--|--|
| Cheadle and Gatley U.D. (18535)                              |  |  |  |
| Vaccination Officer—J. H. Johnson, 77, High Street, Cheadle. |  |  |  |
| Registrar—W. S. Marsh, 11, Ashfield Road, Cheadle.           |  |  |  |

**AREA H—WIRRAL.****District No. 1—East Wirral (31877).**

Bebington M.B. .. (31877)

|                     |   |                                                |
|---------------------|---|------------------------------------------------|
| Vaccination Officer | } | A. Clough,* 218, Bebington Road,<br>Bebington. |
| Registrar           |   |                                                |

**District No. 2—West Wirral (37255).**

|                     |         |                   |        |
|---------------------|---------|-------------------|--------|
| Hoyslake U.D. .. .. | (19745) | Wirral U.D. .. .. | (9599) |
| Neston U.D. .. ..   | (7911)  |                   |        |

|                     |   |                                           |
|---------------------|---|-------------------------------------------|
| Vaccination Officer | } | J. R. Bird, 96b, Market Street, Hoyslake. |
| Registrar           |   |                                           |

**AREA J—WEST CHESHIRE.****District No. 1 (a)—Chester Castle (a) † (20410).**

|                            |        |                          |        |
|----------------------------|--------|--------------------------|--------|
| Hoole U.D. .. ..           | (5892) | Lea-by-Backford .. ..    | (165)  |
| Aldford .. ..              | (347)  | Lea Newbold .. ..        | (39)   |
| Bache .. ..                | (62)   | Ledsham .. ..            | (173)  |
| Backford .. ..             | (124)  | Little Saughall .. ..    | (304)  |
| Barrow-by-Tarvin .. ..     | (910)  | Little Stanney .. ..     | (170)  |
| Bridge Trafford .. ..      | (50)   | Littleton .. ..          | (336)  |
| Buerton .. ..              | (61)   | Lower Kinnerton .. ..    | (113)  |
| Capenhurst .. ..           | (157)  | Marlston-cum-Lache .. .. | (60)   |
| Caughall .. ..             | (13)   | Mickle Trafford .. ..    | (263)  |
| Chester Castle .. ..       | (228)  | Mollington .. ..         | (350)  |
| Christleton .. ..          | (997)  | Moston .. ..             | (81)   |
| Chorlton-by-Backford .. .. | (82)   | Picton .. ..             | (97)   |
| Churton Heath .. ..        | (15)   | Poulton .. ..            | (119)  |
| Claverton .. ..            | —      | Puddington .. ..         | (332)  |
| Croughton .. ..            | (21)   | Pulford .. ..            | (261)  |
| Doddeston .. ..            | (247)  | Rowton .. ..             | (168)  |
| Dunham-on-the-Hill .. ..   | (316)  | Saighton .. ..           | (347)  |
| Eaton .. ..                | (143)  | Shotwick .. ..           | (73)   |
| Eccleston .. ..            | (291)  | Shotwick Park .. ..      | (26)   |
| Elton .. ..                | (252)  | Stoke .. ..              | (101)  |
| Great Boughton .. ..       | (1862) | Thornton-le-Moors .. ..  | (166)  |
| Great Saughall .. ..       | (865)  | Upton-by-Chester .. ..   | (2667) |
| Guilden Sutton .. ..       | (382)  | Wervin .. ..             | (103)  |
| Hapsford .. ..             | (112)  | Wimbolds Trafford .. ..  | (73)   |
| Hoole Village .. ..        | (162)  | Woodbank .. ..           | (88)   |
| Huntington .. ..           | (144)  |                          |        |

|                      |   |                                                 |
|----------------------|---|-------------------------------------------------|
| Vaccination Officer— | } | A. O. Davies, 7 & 8, Godstall Chambers, Chester |
| Registrar—           |   |                                                 |

**District No. 1 (b)—Chester Castle (b) (23057).**

Ellesmere Port U.D. (23057)

Vaccination Officer—A. Clough,\* 218, Bebington Road, Bebington.

Registrar—A. O. Davies, 7 &amp; 8, Godstall Chambers, Chester.

\* Vaccination Officer for H 1 and J 1 (b).

† This district comprises Hoole U.D. and Chester R.D.

Area J—West Cheshire—*Continued.***District No. 2—Tarvin Rural \* (14388).**

|                         |       |                         |        |
|-------------------------|-------|-------------------------|--------|
| Agden .. ..             | (75)  | Hampton .. ..           | (366)  |
| Aldersey .. ..          | (92)  | Handley .. ..           | (250)  |
| Ashton .. ..            | (430) | Harthill .. ..          | (95)   |
| Barton .. ..            | (103) | Hatton .. ..            | (132)  |
| Beeston .. ..           | (268) | Hockenhull .. ..        | (21)   |
| Bickley .. ..           | (302) | Horton .. ..            | (120)  |
| Bradley .. ..           | (136) | Horton-cum-Peel ..      | (37)   |
| Broxton .. ..           | (507) | Huxley .. ..            | (253)  |
| Bruen Stapleford ..     | (114) | Iddinshall .. ..        | (14)   |
| Burton-by-Tarvin ..     | (41)  | Kelsall .. ..           | (874)  |
| Burwardsley .. ..       | (298) | King's Marsh .. ..      | (63)   |
| Caldecott .. ..         | (42)  | Larkton .. ..           | (37)   |
| Carden .. ..            | (151) | Macefen .. ..           | (65)   |
| Chidlow .. ..           | (13)  | Malpas .. ..            | (1101) |
| Chorlton-by-Malpas ..   | (90)  | Mouldsworth .. ..       | (194)  |
| Chowley .. ..           | (61)  | Newton-by-Tattenhall .. | (198)  |
| Church Shocklach ..     | (162) | Newton-by-Malpas ..     | (13)   |
| Churton-by-Aldford ..   | (191) | Oldcastle .. ..         | (84)   |
| Churton-by-Farndon ..   | (145) | Overton-by-Malpas ..    | (98)   |
| Clotton Hoofield ..     | (382) | Pryor's Heyes .. ..     | (11)   |
| Clutton .. ..           | (56)  | Shocklach Oviatt ..     | (149)  |
| Coddington .. ..        | (95)  | Stockton .. ..          | (20)   |
| Cotton Abbots .. ..     | (11)  | Stretton-by-Malpas ..   | (79)   |
| Cotton Edmunds .. ..    | (65)  | Tarvin .. ..            | (1251) |
| Crewe-by-Farndon ..     | (47)  | Tattenhall .. ..        | (1008) |
| Cuddington-by-Malpas .. | (236) | Threapwood .. ..        | (279)  |
| Duddon .. ..            | (194) | Tilston-by-Malpas ..    | (347)  |
| Duckington .. ..        | (65)  | Tilstone Fearnall ..    | (118)  |
| Edge .. ..              | (238) | Tiverton .. ..          | (525)  |
| Edgerley .. ..          | (11)  | Tushingham .. ..        | (234)  |
| Farndon .. ..           | (560) | Waverton .. ..          | (479)  |
| Foulk Stapleford ..     | (205) | Wigland .. ..           | (104)  |
| Golborne Bellow ..      | (103) | Willington .. ..        | (167)  |
| Golborne David .. ..    | (84)  | Wychough .. ..          | (16)   |
| Grafton .. ..           | (13)  |                         |        |

Vaccination Officer } R. E. Blyth, Oakdene, Tattenhall.  
Registrar

\*This District is co-extensive with Tarvin Rural Sanitary District.

#### MEDICAL OFFICERS AND PUBLIC VACCINATORS OF PUBLIC ASSISTANCE INSTITUTIONS

|           |                                  |
|-----------|----------------------------------|
| CONGLETON | Dr. Henderson, Sandbach.         |
| NANTWICH  | Dr. Johnstone, Nantwich.         |
| NORTHWICH | Dr. J. W. Craw, Northwich.       |
| RUNCORN   | Dr. J. W. Crowther, † Stretton.  |
| TARVIN    | Dr. H. L. W. Woodroffe, Chester. |

† Acting for Dr. C. E. W. Bower (with H.M. Forces).

# REPORT OF THE County Medical Officer of Health

For the Year ended December 31st, 1944

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## Section I.-Area and Population

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### Area

The acreage of the County at the end of 1943 was 622,746 acres.

### Population

The population of the Administrative County, as enumerated at the Census of 1931, was 665,575. The estimate of the Registrar-General for mid-1944 was 736,980.

### Rateable Value

The rateable value of the Administrative County of Cheshire for General County Rate purposes at 1/4/44 was £5,215,100. A penny rate over the whole County for 1944-45 represented the sum of £20,650 (estimated).

## Section II.-Births and Deaths

The figures are for the Administrative County, 1944, unless otherwise stated.

Live Births :—

|                    | Total. | Male | Female |
|--------------------|--------|------|--------|
| Legitimate .....   | 12773  | 6564 | 6209   |
| Illegitimate ..... | 706    | 350  | 356    |

Birth Rate per 1,000 of the estimated resident population, 18.3.

|                   | Total. | Male | Female |
|-------------------|--------|------|--------|
| Stillbirths ..... | 405    | 209  | 196    |

Stillbirths Rate per 1,000 total (live and still) births, 29.2.

|              | Total. | Male | Female |
|--------------|--------|------|--------|
| Deaths ..... | 8730   | 4380 | 4350   |

Death Rate per 1,000 of population, 11.8.

The principal causes of death were as follows:—

| Disease.                             | No. of Deaths. | Rate per million population. |
|--------------------------------------|----------------|------------------------------|
| Heart Disease .....                  | 2392           | 3246                         |
| Cancer .....                         | 1400           | 1900                         |
| Intra-cranial vascular lesions ..... | 973            | 1320                         |
| Pneumonia.....                       | 274            | 372                          |
| Tuberculosis (all forms) .....       | 332            | 450                          |
| Pulmonary .....                      | 274            | 372                          |
| Non-Pulmonary .....                  | 58             | 78                           |
| Nephritis .....                      | 269            | 365                          |
| Bronchitis .....                     | 496            | 673                          |

The deaths from the chief zymotic diseases were as follows:—

| Disease.                                      | No. of Deaths. | Rate per million population. |
|-----------------------------------------------|----------------|------------------------------|
| Diphtheria .....                              | 17             | 23                           |
| Whooping Cough.....                           | 11             | 15                           |
| Measles .....                                 | 11             | 15                           |
| Diarrhoea and Enteritis (under 2 years) ..... | 44             | 60                           |
| Scarlet Fever .....                           | 2              | 3                            |
| Typhoid and Paratyphoid .....                 | —              | —                            |
| Smallpox .....                                | —              | —                            |

The zymotic Death Rate was .12 per 1,000.

### Infantile Mortality.

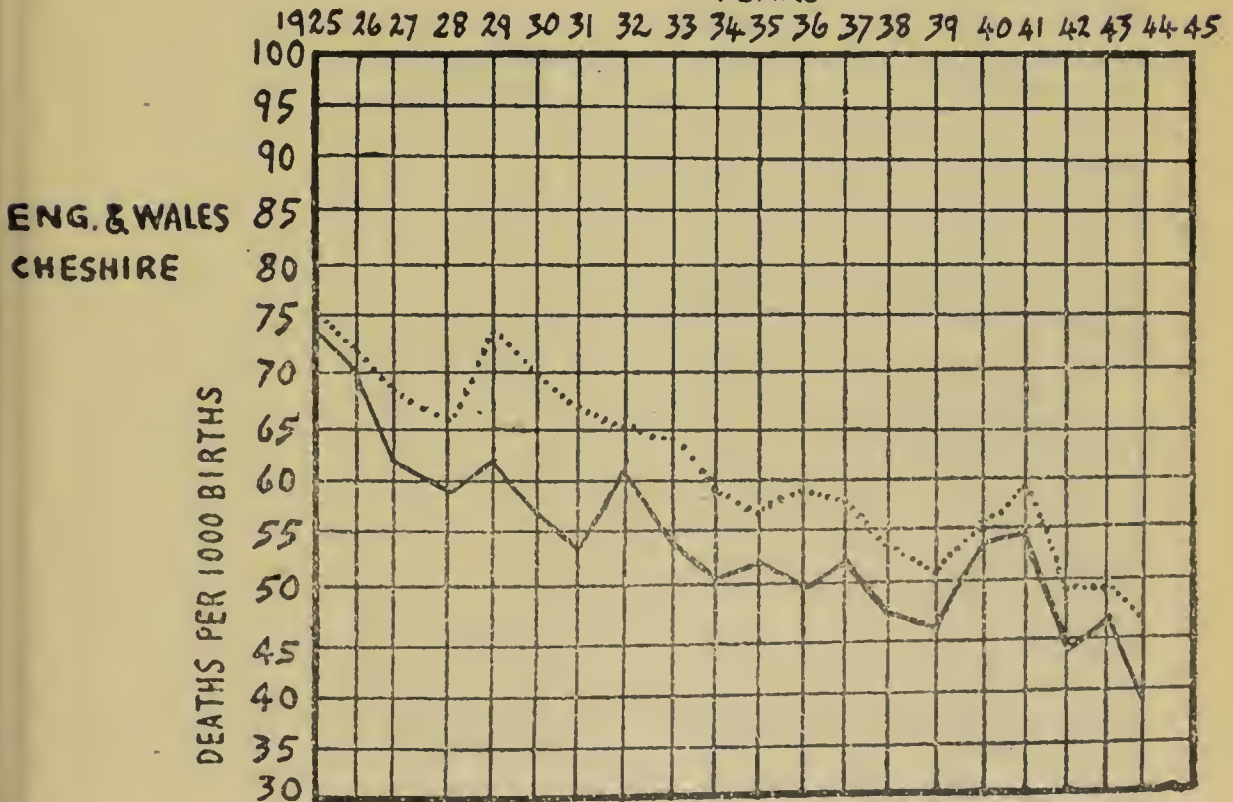
There have been 536 deaths of infants under 1 year in the Administrative County during 1944, i.e., 487 legitimate and 49 illegitimate. These figures show an infantile mortality as follows:—

|                                                         |      |
|---------------------------------------------------------|------|
| All infants per 1,000 live births                       | 39·8 |
| Legitimate infants per 1,000 legitimate live births     | 38·1 |
| Illegitimate infants per 1,000 illegitimate live births | 69·4 |

The figures for recent years are shown in the following diagram:—

### INFANTILE MORTALITY

YEARS



### Deaths from Puerperal Causes:—

|                        | Deaths. | Rate per<br>1,000 total<br>(live and still)<br>births. |
|------------------------|---------|--------------------------------------------------------|
| Puerperal Sepsis       | 8       | ·57                                                    |
| Other Puerperal Causes | 19      | 1·37                                                   |
| Total                  | 27      | 1·94                                                   |

## Section III.-Infectious Diseases, etc.

### Number of Cases notified during 1944

[illegible]

TABLE 1.—INFECTIOUS DISEASE OTHER THAN SMALLPOX

| Area | County Districts.                                                                                                                                                                                                               | Hospital Authority.                                                                                                                                                                                                                                                          | Situation of Hospital.                                                                  | Accommodation |       |                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------|-------|----------------------------------------------------------|
|      |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                              |                                                                                         | Blocks        | Wards | Beds                                                     |
| 1    | Sale M.B.<br>Ald'ley Edge U.D.<br>Hale U.D.<br>Knutsford U.D.<br>Wilmslow U.D.<br>Bucklow R.D.<br>Cheadle and<br>Gatley U.D.<br>Altrincham M.B. <sup>b</sup><br>Bowdon U.D.<br>Lymm U.D. <sup>c</sup>                           | N. Ches. J.H.B. <sup>a</sup><br><sup>a</sup> Beds for Districts in Board's Area provided by agreement with Manchester except where indicated<br><br><br><br><br><br><br><sup>b</sup> Continues separate provision, also serves Bowdon<br><sup>c</sup> Agree. with Warrington | Monsall,<br>Manchester<br><br><br><br><br>Sinderland Rd.,<br>Altrincham.<br>Warrington. | —             | —     | 45<br><br><br><br><br><br><br>10<br>34<br>(As required). |
| 2    | Hoole U.D. <sup>d</sup><br>Tarvin R.D. <sup>d</sup>                                                                                                                                                                             | <sup>d</sup> Agree. with Chester, including smallpox                                                                                                                                                                                                                         | Sealand Rd.,<br>Chester.                                                                | —             | —     | 4 <sup>d</sup><br>8 <sup>d</sup>                         |
| 3    | Congleton M.B.<br>Alsager U.D.<br>Sandbach U.D.<br>Congleton R.D.                                                                                                                                                               | Congleton and District J.H.B. <sup>e</sup><br><sup>e</sup> Includes Biddulph (6 beds)                                                                                                                                                                                        | West Heath,<br>Congleton.                                                               | 4             | 11    | 45 <sup>e</sup>                                          |
| 4    | Crewe M.B.                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                              | Crewe.                                                                                  | 4             | 12    | 40                                                       |
| 5    | Runcorn U.D.                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                              | Weston Rd.,<br>Runcorn.                                                                 | 2             | 4     | 32                                                       |
| 6    | Runcorn R.D.                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                              | Preston Brook.                                                                          | 3             | 9     | 36                                                       |
| 7    | Hyde M.B. <sup>f</sup><br>Dukinfield M.B.<br>Stalybridge M.B.<br>Bredbury and<br>Romiley U.D.<br>Hazel Grove and<br>Bramhall U.D.<br>Marple U.D.<br>Disley R.D.<br>Longd'd'le U.D. <sup>g</sup><br>Tintwistle R.D. <sup>g</sup> | <sup>f</sup> All other Authorities have made agreements with Hyde<br><br><br><br><br><br><br><br><br><br><sup>g</sup> Provisional agreement only. See also under Table 2.                                                                                                    | Back Bower<br>Lane, Hyde.                                                               | 4             | 22    | 50 <sup>*</sup>                                          |
| 8    | Macclesfield M.B. <sup>h</sup><br>Bollington U.D.<br>Macclesfield R.D.                                                                                                                                                          | <sup>h</sup> The other two Authorities have agreements with Macclesfield M.B.                                                                                                                                                                                                | Moss Lane,<br>Macclesfield.                                                             | 4             | 10    | 66<br>(One cubicle).                                     |
| 9    | Nantwich U.D.<br>Nantwich R.D.                                                                                                                                                                                                  | Nantwich J.H.B.                                                                                                                                                                                                                                                              | Alvaston,<br>Nantwich.                                                                  | 3             | 6     | 41<br>(including 22<br>cots)                             |
| 10   | Middlewich U.D.<br>Northwich U.D.<br>Winsford U.D.<br>Northwich R.D.                                                                                                                                                            | Northwich and District J.H.B.                                                                                                                                                                                                                                                | Davenham.                                                                               | 4             | 12    | 50                                                       |
| 11   | Bebington M.B.<br>Ell'm're P't U.D.<br>Hoylake U.D.<br>Neston U.D.<br>Wirral U.D.<br>Chester R.D.                                                                                                                               | Wirral J.H.B.                                                                                                                                                                                                                                                                | Clatterbridge.                                                                          | 6             | 15    | 105                                                      |

\* Shared with Denton, Mossley, Audenshaw and Ashton-u-Lyne, who are entitled to 20 beds

TABLE 2.—SMALLPOX

| Area | County Districts.                                                                                                                                                                                               | Hospital Authority.                                                                                                                                                                                                                                      | Situation of Hospital.                                                 | Accommodation                                                                                            |       |      |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------|------|
|      |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                          |                                                                        | Blocks                                                                                                   | Wards | Beds |
| 1    | Sale M.B.<br>Ald't'y Edge U.D.<br>Hale U.D.<br>Knutsford U.D.<br>Wilmslow U.D.<br>Bucklow R.D.<br><br>Altrincham M.B.<br><br>Bowdon U.D.<br><br>Cheadle and<br>Gatley U.D.<br>Lymm U.D. <sup>b</sup>            | N. Ches. J.H.B. <sup>a</sup><br><sup>a</sup> Beds for Districts in Board's Area provided by agreement with Manchester except where indicated<br><br><br><br><br><br><br><br><br><br><br><sup>b</sup> Agree. with Warrington                              | Clayton,<br>Manchester.<br><br><br><br><br><br><br><br>Warrington.     | (As required)                                                                                            |       |      |
| 2    | Congleton M.B.<br>Alsager U.D.<br>Sandbach U.D.<br>Congleton R.D.<br>Crewe M.B. <sup>c</sup>                                                                                                                    | Congleton and District S.P.J.B.<br><br><br><br><br><sup>c</sup> Contracts with Board for 6 Beds                                                                                                                                                          | Arclid,<br>Sandbach.                                                   | 2                                                                                                        | 2     | 12   |
| 3    | Hoole U.D. <sup>d</sup><br>Tarvin R.D. <sup>d</sup>                                                                                                                                                             | <sup>d</sup> Agree. with Chester                                                                                                                                                                                                                         | Sealand Rd.,<br>Chester.                                               | (As required—<br>see Table 1)                                                                            |       |      |
| 4    | Hyde M.B. <sup>e</sup><br>Dukinfield M.B.<br>Bredbury and<br>Romiley U.D.<br>Hazel Grove and<br>Bramhall U.D.<br>Marple U.D.<br>Disley R.D.<br><br>Longd'd'le U.D. <sup>f</sup><br>Tintwistle R.D. <sup>f</sup> | <sup>e</sup> All other Authorities (except Tintwistle and Longdendale) have made agreements with Hyde<br><br><br><br><br><br><br><br><sup>f</sup> Hollingworth, Mottram and Tintwistle J.C.<br><sup>g</sup> Agree. with Congleton and District. S.P.J.B. | Old Road, Hyde.<br><br><br><br><br><br><br>Carrhouse Lane,<br>Mottram. | 2                                                                                                        | 6     | 48*  |
| 5    | Mac'sfield M.B. <sup>g</sup><br>Bollington U.D. <sup>g</sup><br>Mac'sfield R.D. <sup>g</sup>                                                                                                                    |                                                                                                                                                                                                                                                          |                                                                        | * Shared with Denton, Droylsden, Stockport & Rochdale who are entitled to 9 beds. See also under Area 5. |       |      |
| 6    | Nantwich U.D.<br>Nantwich R.D.                                                                                                                                                                                  | Nantwich J.H.B.                                                                                                                                                                                                                                          | Ravensmoor,<br>Nantwich.                                               | 1                                                                                                        | 2     | 6†   |
| 7    | Middlewich U.D.<br>Northwich U.D.<br>Winsford U.D.<br>Northwich R.D.                                                                                                                                            | Northwich and District J.H.B.                                                                                                                                                                                                                            | Marbury,<br>Northwich.                                                 | 3                                                                                                        | 9     | 15‡  |
| 8    | Runcorn U.D. <sup>i</sup><br>Runcorn R.D. <sup>i</sup>                                                                                                                                                          | <sup>i</sup> Agree. with Warrington                                                                                                                                                                                                                      | Warrington.                                                            | (As required)                                                                                            |       |      |
| 9    | Bebington M.B.<br>Ellesmere Port<br>Ell'm're P't U.D.<br>Hoylake U.D.<br>Neston U.D.<br>Wirral U.D.<br>Chester R.D.                                                                                             | Wirral J.H.B. <sup>j</sup><br><sup>j</sup> Agree. with Liverpool                                                                                                                                                                                         | Liverpool Port Sanitary Hospital, New Ferry (and others in Liverpool). | (As required)                                                                                            |       |      |
| 10   | Stalybridge M.B. <sup>k</sup>                                                                                                                                                                                   | <sup>k</sup> Member of Ashton, etc. J.S.P.H.B.                                                                                                                                                                                                           | Ashton-u-Lyne                                                          | (As required)                                                                                            |       |      |

\* Shared with Denton, Droylsden, Stockport & Rochdale who are entitled to 9 beds. See also under Area 5.

† For all infectious diseases (Priority to Smallpox)

## AMBULANCES

All cases of infectious disease are dealt with by the ambulances attached to the various Isolation Hospitals.

Apart from infectious cases the following are the arrangements in force in the County (excluding Civil Defence):—

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| Altrincham Borough   | Three motor ambulances.                                                                |
| Bebington Borough    | Two motor ambulances attached to Port Sunlight Hospital; Council makes annual payment. |
| Congleton Borough    | One motor ambulance.                                                                   |
| Crewe Borough        | Three motor ambulances.                                                                |
| Dukinfield Borough   | Make use of Hyde Ambulance.                                                            |
| Hyde Borough         | Four motor ambulances.                                                                 |
| Macclesfield Borough | Three motor ambulances.                                                                |
| Sale Borough         | Two motor ambulances.                                                                  |
| Stalybridge Borough  | One motor ambulance.                                                                   |
| Alderley Edge Urban  | One motor ambulance.                                                                   |
| Alsager Urban        | One motor ambulance.                                                                   |
| Bollington Urban     | Have arrangement with Macclesfield Corporation.                                        |
| Bowdon Urban         | Two motor ambulances jointly with Hale.                                                |
| Bredbury Urban       | Arrangement with Hyde Corporation.                                                     |
| Cheadle Urban        | Two motor ambulances provided by St. John and Red Cross.                               |
| Ellesmere Port Urban | Two motor ambulances.                                                                  |
| Hazel Grove Urban    | Arrangement with Stockport Corporation.                                                |
| Hoole Urban          | Standing Joint Committee has arrangement with Chester City.                            |
| Hoyle Urban          | Two motor ambulances.                                                                  |
| Knutsford Urban      | Agreement with Altrincham.                                                             |
| Longdendale Urban    | Arrangement with Hyde.                                                                 |
| Lymm Urban           | Agreement with Altrincham.                                                             |
| Marple Urban         | Arrangement with Stockport.                                                            |
| Middlewich Urban     | Make use of ambulances from Northwich.                                                 |
| Nantwich Urban       | Maintain an ambulance jointly with Rural District.                                     |
| Neston Urban         | One motor ambulance.                                                                   |
| Northwich Urban      | Two motor ambulances.                                                                  |
| Runcorn Urban        | Council subsidise a private firm for the use of a motor ambulance.                     |
| Sandbach Urban       | An annual sum is paid for the use of two St. John motor ambulances.                    |

|                    |                                                            |
|--------------------|------------------------------------------------------------|
| Wilmslow Urban     | One motor ambulance.                                       |
| Winsford Urban     | One motor ambulance; also made use of Red Cross ambulance. |
| Wirral Urban       | One motor ambulance.                                       |
| Bucklow Rural      | Agreement with Altrincham.                                 |
| Chester Rural      | Standing Joint Committee has agreement with Chester City.  |
| Congleton Rural    | Make use of Sandbach ambulances.                           |
| Disley Rural       | Have services of Stockport ambulance                       |
| Macclesfield Rural | Agreement with Macclesfield Borough.                       |
| Nantwich Rural     | Maintain an ambulance jointly with Urban District.         |
| Northwich Rural    | Make use of the ambulances from Northwich.                 |
| Runcorn Rural      | One motor ambulance.                                       |
| Tarvin Rural       | Standing Joint Committee has agreement with Chester City.  |
| Tintwistle Rural.  | Utilise the Hyde ambulance.                                |

The Standing Joint Committee pays an annual sum of £100 for the use of Chester City Ambulances within a 10-mile radius.

The ambulances at Clatterbridge County Hospital serve the districts from which patients are conveyed to that Institution.

## Section IV.-Venereal Diseases

The following information is compiled from the returns supplied by the treatment centres used by County patients in 1944:—

| Institution.                                | Persons attending for first time at Out-Patient Clinic suffering from |              |             |                          | Total attendances at Out-Patient Clinic. |
|---------------------------------------------|-----------------------------------------------------------------------|--------------|-------------|--------------------------|------------------------------------------|
|                                             | Syphilis.                                                             | Soft Chancre | Gonorrhoea. | Non-Venereal conditions. |                                          |
| Ashton-under-Lyne Infirmary ...             | 31                                                                    | —            | 26          | 23                       | 1366                                     |
| Birkenhead Hospital ...                     | 7                                                                     | —            | 28          | 48                       | 1195                                     |
| Chester Royal Infirmary ...                 | 28                                                                    | —            | 38          | 64                       | 1474                                     |
| Crewe Herdman Street Clinic ...             | 13                                                                    | —            | 33          | 47                       | 1363                                     |
| Huddersfield Treatment Centre...            | —                                                                     | —            | 1           | —                        | 2                                        |
| Liverpool Mill Road Infirmary ...           | 2                                                                     | —            | 6           | 10                       | 194                                      |
| Liverpool Royal Infirmary ...               | 4                                                                     | —            | 8           | 24                       | 455                                      |
| Liverpool Seamen's Dispensary...            | 5                                                                     | 1            | 19          | 38                       | 545                                      |
| Macclesfield West Park Clinic ...           | 38                                                                    | 1            | 11          | 63                       | 2942                                     |
| Manchester Ancoats Hospital ...             | 2                                                                     | —            | 3           | 7                        | 177                                      |
| Manchester Royal Eye ...                    | 7                                                                     | —            | —           | 2                        | 565                                      |
| Manchester Royal Infirmary ...              | 24                                                                    | —            | 16          | 34                       | 1170                                     |
| Manchester Skin Hospital ...                | 15                                                                    | —            | 2           | 18                       | 590                                      |
| Manchester St. Luke's ...                   | 10                                                                    | —            | 47          | 83                       | 1619                                     |
| Manchester St Mary's ...                    | 1                                                                     | —            | 8           | 21                       | 443                                      |
| Salford Borough Hospital ...                | 2                                                                     | —            | 8           | 30                       | 787                                      |
| Southampton Treatment Centre                | —                                                                     | —            | 1           | —                        | 9                                        |
| South Shields Treatment Centre              | —                                                                     | —            | —           | 1                        | 2                                        |
| Stockport Clinic ...                        | 13                                                                    | —            | 9           | 68                       | 1187                                     |
| Stoke-on-Trent Clinic ...                   | 1                                                                     | —            | 4           | 6                        | 207                                      |
| Stoke-on-Trent, North Staffs. Infirmary ... | 7                                                                     | —            | 7           | 12                       | 1189                                     |
| Warrington Borough Hospital ...             | —                                                                     | —            | 2           | 1                        | 41                                       |
| Warrington Infirmary ...                    | 10                                                                    | —            | 26          | 24                       | 1852                                     |
| <b>TOTALS ...</b>                           | <b>220</b>                                                            | <b>2</b>     | <b>303</b>  | <b>624</b>               | <b>19374</b>                             |

A County Council Clinic at Herdman Street, Crewe, began 6/6/44, and figures in respect thereof, for the remainder of the year, are included above.

## Section V.-Tuberculosis, etc.

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### Statistics

The annual tuberculosis returns for the Ministry of Health were in great part eliminated. For the sake of continuity, however, the main figures for the year under review and the two previous years are set out for comparison:—

|                                                                                                            | 1944  | 1943  | 1942  |
|------------------------------------------------------------------------------------------------------------|-------|-------|-------|
| New cases notified (primary)                                                                               |       |       |       |
| Pulmonary ...                                                                                              | 512   | 465   | 458   |
| New cases notified (primary)                                                                               |       |       |       |
| Non-pulmonary ...                                                                                          | 222   | 220   | 255   |
|                                                                                                            | <hr/> | <hr/> | <hr/> |
| Total ...                                                                                                  | 734   | 685   | 713   |
|                                                                                                            | <hr/> | <hr/> | <hr/> |
| No of cases remaining on<br>Registers of Notifications<br>kept by District M.O's.H.,<br>December 31st. ... | 5732  | 5432  | 5241  |
| No. of Deaths from all forms of<br>Tuberculosis ...                                                        | 332   | 339   | 302   |
| Death-rate from all forms of<br>Tuberculosis per 1,000<br>of the population                                | 0·45  | 0·46  | 0·40  |
| New Applicants for Treatment                                                                               | 437   | 448   | 436   |
| No. of Cases on Dispensary<br>Registers, 31st December                                                     | 5803  | 5530  | 5274  |

The following table shows the number of insured (including discharged service cases) and uninsured persons who have received treatment during the years 1935-1944:—

| YEAR. | INSURED. |          | UNINSURED. |          | TOTAL. |
|-------|----------|----------|------------|----------|--------|
|       | Males.   | Females. | Males.     | Females. |        |
| 1935  | 423      | 195      | 259        | 304      | 1181   |
| 1936  | 455      | 183      | 277        | 335      | 1250   |
| 1937  | 498      | 208      | 294        | 344      | 1344   |
| 1938  | 487      | 227      | 280        | 347      | 1341   |
| 1939  | 507      | 220      | 244        | 281      | 1252   |
| 1940  | 509      | 209      | 168        | 238      | 1124   |
| 1941  | 490      | 204      | 157        | 222      | 1073   |
| 1942  | 506      | 185      | 151        | 201      | 1043   |
| 1943  | 451      | 193      | 160        | 209      | 1013   |
| 1944  | 424      | 199      | 131        | 185      | 939    |

Number of new applications for treatment under the County Tuberculosis Scheme during the years 1935-1944:—

| YEAR. | DIS-<br>CHARGED<br>SERVICE CASES | INSURED. | UNINSURED. | TOTAL. |
|-------|----------------------------------|----------|------------|--------|
| 1935  | —                                | 267      | 231        | 498    |
| 1936  | —                                | 268      | 246        | 514    |
| 1937  | 1                                | 309      | 298        | 608    |
| 1938  | —                                | 281      | 294        | 575    |
| 1939  | 1                                | 306      | 228        | 535    |
| 1940  | 7                                | 314      | 193        | 514    |
| 1941  | 34                               | 263      | 163        | 460    |
| 1942  | 34                               | 245      | 157        | 436    |
| 1943  | 44                               | 251      | 153        | 448    |
| 1944  | 69                               | 218      | 150        | 437    |

Table relating to Tuberculosis in children under 16:—

| Year. | Number of Children notified as suffering from Pulmonary Tuberculosis. | Number of Children notified as suffering from Non-Pulmonary Tuberculosis. | Percentage of Total Notifications. |                |
|-------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------|----------------|
|       |                                                                       |                                                                           | Pulmonary.                         | Non-Pulmonary. |
| 1935  | 33                                                                    | 152                                                                       | 6·7                                | 61·5           |
| 1936  | 26                                                                    | 167                                                                       | 5·4                                | 61·2           |
| 1937  | 25                                                                    | 193                                                                       | 5·0                                | 65·7           |
| 1938  | 32                                                                    | 185                                                                       | 6·1                                | 66·8           |
| 1939  | 24                                                                    | 181                                                                       | 5·6                                | 65·4           |
| 1940  | 25                                                                    | 136                                                                       | 5·3                                | 68·0           |
| 1941  | 17                                                                    | 146                                                                       | 3·3                                | 65·8           |
| 1942  | 21                                                                    | 149                                                                       | 4·6                                | 58·4           |
| 1943  | 17                                                                    | 126                                                                       | 3·7                                | 57·3           |
| 1944  | 20                                                                    | 143                                                                       | 3·9                                | 64·4           |

**Beds Occupied.**

The number of beds occupied in institutions other than the Cheshire Joint Sanatorium or Wrenbury Hall at 1st April, was as follows:—

| Year. | Beds occupied. |
|-------|----------------|
| 1935  | 205            |
| 1936  | 206            |
| 1937  | 226            |
| 1938  | 229            |
| 1939  | 229            |
| 1940  | 175            |
| 1941  | 174            |
| 1942  | 173            |
| 1943  | 155            |
| 1944  | 148            |
| 1945  | 161            |

Statement shewing number of patients who received institutional treatment during 1944:—

| Institution                     | Adults |              | Child-<br>ren<br>under<br>16 | Total | Average<br>number<br>of beds<br>occupied | Average<br>period<br>in<br>residence |      |
|---------------------------------|--------|--------------|------------------------------|-------|------------------------------------------|--------------------------------------|------|
|                                 | Males  | Fe-<br>males |                              |       |                                          | Wks.                                 | Days |
| SANATORIA                       |        |              |                              |       |                                          |                                      |      |
| Cheshire Joint Sanatorium ..    | 174    | 144          | —                            | 318   | 125·04                                   | 20                                   | 4    |
| Wrenbury Hall ..                | 82     | —            | —                            | 82    | 25·88                                    | 16                                   | 4    |
| Liverpool Sanatorium...         | 43     | 36           | —                            | 79    | 18·29                                    | 12                                   | 1    |
| Nab Top Sanatorium ..           | 1      | 1            | 1                            | 3     | 1·34                                     | 23                                   | 3    |
| Crossley Sanatorium ..          | 2      | 3            | —                            | 5     | 2·40                                     | 25                                   | 3    |
| Cleaver Sanatorium ..           | —      | 1            | —                            | 1     | ·27                                      | 14                                   | —    |
| Mundesley Sanatorium ..         | 2      | 5            | —                            | 7     | 2·63                                     | 19                                   | 5    |
| Preston Hall Sanatorium ..      | 3      | 1            | —                            | 4     | ·60                                      | 7                                    | 6    |
| Nayland Sanatorium ..           | —      | 4            | —                            | 4     | 1·15                                     | 15                                   | —    |
| Llanbedr Hall ..                | 2      | 2            | —                            | 4     | 1·49                                     | 19                                   | 3    |
| Total ..                        | 309    | 197          | 1                            | 507   | 179·09                                   | 17                                   | 3    |
| PULMONARY HOSPITALS             |        |              |                              |       |                                          |                                      |      |
| Hyde Pavilion ..                | 71     | —            | —                            | 71    | 29·94                                    | 22                                   | —    |
| Baguley Sanatorium ..           | 8      | 10           | —                            | 18    | 7·93                                     | 23                                   | —    |
| Hefferston Grange ..            | 28     | 19           | —                            | 47    | 17·67                                    | 19                                   | 5    |
| Withington Hospital ..          | —      | 1            | —                            | 1     | ·03                                      | 1                                    | 4    |
| Barrowmore Hall ..              | 1      | —            | —                            | 1     | ·14                                      | 7                                    | 4    |
| Blackburn (Park Lee) Cor. Hos.  | 1      | —            | —                            | 1     | ·08                                      | 4                                    | 1    |
| Total ..                        | 109    | 30           | —                            | 139   | 55·79                                    | 13                                   | —    |
| GENERAL HOSPITALS               |        |              |                              |       |                                          |                                      |      |
| Congleton Memorial Hospital     | 1      | 1            | 4                            | 6     | 1·13                                     | 9                                    | 6    |
| Albert Infirmary, Winsford ..   | —      | 3            | 3                            | 6     | ·35                                      | 3                                    | —    |
| Ashton-u-Lyne Infirmary ..      | —      | —            | 1                            | 1     | ·07                                      | 3                                    | 5    |
| Macclesfield General Infirmary  | 1      | 1            | 7                            | 9     | ·34                                      | 2                                    | —    |
| Manchester Royal Infirmary ..   | 3      | 4            | 1                            | 8     | ·65                                      | 4                                    | 2    |
| Runcorn Victoria Mem. Hosp.     | —      | —            | 1                            | 1     | ·04                                      | 2                                    | 1    |
| Altrincham General Hospital..   | 1      | 3            | 6                            | 10    | ·37                                      | 2                                    | —    |
| Liverpool Royal Infirmary ..    | 1      | 1            | —                            | 2     | ·25                                      | 6                                    | 5    |
| Warrington Boro' General Hos.   | 1      | —            | —                            | 1     | ·03                                      | 1                                    | 5    |
| Warrington Infirmary..          | —      | —            | 1                            | 1     | ·04                                      | 2                                    | —    |
| Royal Liverpool (Myrtle Street) | —      | —            | 1                            | 1     | ·04                                      | 2                                    | —    |
| Royal Liverpool (Heswall) ..    | —      | —            | 12                           | 12    | 3·75                                     | 16                                   | 2    |
| Northwich Infirmary ..          | 1      | 1            | 3                            | 5     | ·32                                      | 3                                    | 3    |
| Total ..                        | 9      | 14           | 40                           | 63    | 7·38                                     | 4                                    | 4    |
| ORTHOPAEDIC HOSPITALS           |        |              |                              |       |                                          |                                      |      |
| Leasowe Open-Air Hospital ..    | —      | 15           | 35                           | 50    | 24·45                                    | 25                                   | 4    |
| Oswestry Orthopaedic Hospital   | 21     | 14           | 27                           | 62    | 31·44                                    | 26                                   | 6    |
| Hartshill Orthopaedic Hospital  | 2      | 1            | 6                            | 9     | 3·41                                     | 19                                   | 6    |
| Marple Orthopaedic Hospital     | —      | —            | 3                            | 3     | 2·19                                     | 38                                   | 1    |
| Total ..                        | 23     | 30           | 71                           | 124   | 61·49                                    | 27                                   | 4    |
| CONVALESCENT HOMES              |        |              |                              |       |                                          |                                      |      |
| Wm. & John Jones Conv. Home     | —      | —            | 1                            | 1     | 1·00                                     | 52                                   | 2    |
| Total ..                        | —      | —            | 1                            | 1     | 1·00                                     | 52                                   | 2    |
| SKIN HOSPITALS                  |        |              |                              |       |                                          |                                      |      |
| Manchester & Salford ..         | —      | 1            | —                            | 1     | ·07                                      | 3                                    | 5    |
| Total ..                        | —      | 1            | —                            | 1     | ·07                                      | 3                                    | 5    |
| TOTAL ALL INSTITUTIONS          | 450    | 272          | 113                          | 835   | 304·82                                   | 19                                   | 5    |

Table showing primary notifications and deaths from Tuberculosis since 1st February, 1913, when compulsory notification began in Cheshire.

| Year | Primary notifications<br>Form A |      | Deaths |     | Death rate<br>per 1,000<br>population |      |
|------|---------------------------------|------|--------|-----|---------------------------------------|------|
| 1913 | ..                              | 1224 | ..     | 651 | ..                                    | 1·04 |
| 1914 | ..                              | 1293 | ..     | 655 | ..                                    | 1·05 |
| 1915 | ..                              | 1001 | ..     | 677 | ..                                    | 1·12 |
| 1916 | ..                              | 999  | ..     | 677 | ..                                    | 1·18 |
| 1917 | ..                              | 770  | ..     | 671 | ..                                    | 1·18 |
| 1918 | ..                              | 770  | ..     | 744 | ..                                    | 1·35 |
| 1919 | ..                              | 789  | ..     | 592 | ..                                    | ·98  |
| 1920 | ..                              | 892  | ..     | 578 | ..                                    | ·92  |
| 1921 | ..                              | 908  | ..     | 527 | ..                                    | ·83  |
| 1922 | ..                              | 786  | ..     | 550 | ..                                    | ·86  |
| 1923 | ..                              | 850  | ..     | 488 | ..                                    | ·76  |
| 1924 | ..                              | 1016 | ..     | 512 | ..                                    | ·79  |
| 1925 | ..                              | 883  | ..     | 510 | ..                                    | ·78  |
| 1926 | ..                              | 939  | ..     | 489 | ..                                    | ·73  |
| 1927 | ..                              | 892  | ..     | 488 | ..                                    | ·73  |
| 1928 | ..                              | 932  | ..     | 499 | ..                                    | ·74  |
| 1929 | ..                              | 917  | ..     | 465 | ..                                    | ·69  |
| 1930 | ..                              | 838  | ..     | 438 | ..                                    | ·64  |
| 1931 | ..                              | 802  | ..     | 438 | ..                                    | ·64  |
| 1932 | ..                              | 751  | ..     | 460 | ..                                    | ·66  |
| 1933 | ..                              | 754  | ..     | 389 | ..                                    | ·57  |
| 1934 | ..                              | 765  | ..     | 377 | ..                                    | ·54  |
| 1935 | ..                              | 739  | ..     | 367 | ..                                    | ·52  |
| 1936 | ..                              | 752  | ..     | 348 | ..                                    | ·49  |
| 1937 | ..                              | 799  | ..     | 373 | ..                                    | ·52  |
| 1938 | ..                              | 802  | ..     | 360 | ..                                    | ·49  |
| 1939 | ..                              | 709  | ..     | 358 | ..                                    | ·48  |
| 1940 | ..                              | 674  | ..     | 403 | ..                                    | ·52  |
| 1941 | ..                              | 740  | ..     | 402 | ..                                    | ·52  |
| 1942 | ..                              | 713  | ..     | 302 | ..                                    | ·40  |
| 1943 | ..                              | 685  | ..     | 339 | ..                                    | ·46  |
| 1944 | ..                              | 734  | ..     | 332 | ..                                    | ·45  |

The 1944 deaths are made up as follows:—

|                  | Male.     | Female.   | Total.    |
|------------------|-----------|-----------|-----------|
| Pulmonary ..     | 169       | 105       | 274       |
| Non-Pulmonary .. | 28        | 30        | 58        |
|                  | <hr/> 197 | <hr/> 135 | <hr/> 332 |

Death Rates, 1944.

All forms,      ·45 per 1000 of population.  
Pulmonary,      ·37 per 1000 of population.  
Non-Pulmonary, ·08 per 1000 of population.

## Summary of Notifications during the period from the 1st January, 1944, to the 31st December, 1944

### Formal Notifications

| Age Periods         | Number of Primary Notifications of new cases of tuberculosis |    |    |     |     |     |     |     |     |     |     | Total (all ages) | Total Notifications |
|---------------------|--------------------------------------------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|---------------------|
|                     | 0-                                                           | 1- | 5- | 10- | 15- | 20- | 25- | 35- | 45- | 55- | 65- |                  |                     |
| Pulmonary Males     | —                                                            | 1  | 1  | 2   | 24  | 39  | 68  | 68  | 52  | 40  | 15  | 310              | 340                 |
| „ Females           | 2                                                            | 2  | 1  | 11  | 26  | 46  | 61  | 31  | 9   | 6   | 7   | 202              | 220                 |
| Non-pulmonary Males | 2                                                            | 28 | 26 | 14  | 8   | 4   | 7   | 5   | 3   | 1   | 4   | 102              | 108                 |
| „ Females           | 2                                                            | 24 | 27 | 20  | 3   | 9   | 13  | 11  | 7   | 4   | —   | 120              | 124                 |

### SUPPLEMENTAL RETURN

New Cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification

| Age Periods         | 0- | 1- | 5- | 10- | 15- | 20- | 25- | 35- | 45- | 55- | 65- | Total |
|---------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Pulmonary Males     | —  | 1  | —  | —   | 3   | 4   | 19  | 12  | 6   | 8   | 3   | 56    |
| „ Females           | —  | 1  | —  | 1   | 7   | 8   | 19  | 8   | 4   | 3   | 2   | 53    |
| Non-pulmonary Males | —  | 3  | 1  | 1   | —   | 1   | —   | 1   | —   | 1   | —   | 8     |
| „ Females           | 1  | 3  | 3  | 2   | 1   | 3   | 5   | —   | —   | 1   | —   | 19    |

The source or sources from which information as to the above-mentioned cases was obtained are stated below:—

| Source of Information                                         |                                              | No. of Cases |               |
|---------------------------------------------------------------|----------------------------------------------|--------------|---------------|
|                                                               |                                              | Pulmonary    | Non-Pulmonary |
| Death Returns                                                 | { From Local Registrars                      | —            | —             |
|                                                               | { Transferable deaths from Registrar General | —            | —             |
|                                                               |                                              | 34           | 5             |
|                                                               |                                              | 7            | 7             |
| Posthumous notifications                                      |                                              | 3            | 1             |
| “Transfers” from other areas (other than transferable deaths) |                                              | 65           | 14            |
| Other Sources                                                 |                                              | —            | —             |

### FINANCIAL ASSISTANCE—Memo. 266/T.

During the year 1944, 146 maintenance and 93 other awards were made by the Care Inter-Sub-Committee, while 112 maintenance and 49 other awards ceased.

At the end of the calendar year 1944, there were 110 maintenance allowances and 44 other awards so made to patients in the County.

At the end of the financial year 1944/5, there were 107 maintenance allowances and 33 other awards so made to patients in the County.

## COUNTY PUBLIC HEALTH LABORATORY

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Specimens examined in the County Public Health Laboratory during the year 1944 for:—

| <i>Sanatoria—</i>                                        | Neg. | Pos. |
|----------------------------------------------------------|------|------|
| Wrenbury Hall ... ..                                     | 337  | 160  |
| Borough Hospital, Hyde<br>(Tuberculosis Pavilion) ... .. | 44   | 90   |
| <br><i>Other Institutions—</i>                           |      |      |
| Clatterbridge Hospital ... ..                            | 91   | 11   |
| Clatterbridge Emergency Hospital ... ..                  | 20   | 1    |
| Altrincham General Hospital ... ..                       | 8    | 1    |
| Arclid Institution ... ..                                | 2    |      |
| Barony Institution, Nantwich ... ..                      | 4    |      |
| Children's Orthopaedic Hospital, Marple                  | 16   |      |
| Cottage Hospital, Knutsford ... ..                       | 1    |      |
| David Lewis Colony, Warford ... ..                       | 1    |      |
| Dutton Institution ... ..                                | 1    |      |
| Ellesmere Port and District Hospital ...                 | 18   |      |
| General Infirmary, Macclesfield ... ..                   | 1    |      |
| Isolation Hospital, Altrincham ... ..                    | 1    |      |
| Port Sunlight Hospital ... ..                            | 2    | 1    |
| Parkside Mental Hospital, Macclesfield ...               | 3    |      |
| West Park Hospital, Macclesfield ... ..                  | 46   | 10   |
| War Memorial Hospital, Sale ... ..                       | 1    |      |
| <br><i>Districts outside the County—</i>                 |      |      |
| Birkenhead County Borough ... ..                         | 1    |      |
| Anglesey County Council ... ..                           | 1    |      |
| Lancashire County Council ... ..                         | 1    |      |
| Staffordshire County Council ... ..                      | 1    |      |

*Total Number of Specimens Examined during the Year 1944*

|                                                                    | Neg.        | Pos.      |
|--------------------------------------------------------------------|-------------|-----------|
| Sputa for T.B. Examination ... ..<br>(17.1 per cent. positive)     | 2651        | 548       |
| Pleuritic Specimens ... ..                                         | 15          | 1         |
| Urines ... ..                                                      | 2           | 1         |
| Pus ... ..                                                         | 14          | 1         |
| Hair for Ringworm ... ..                                           | 6           | 1         |
| Faeces for Occult Blood ... ..                                     |             | 1         |
| Cultures for Tubercle Bacilli ... ..                               | 182         | 17        |
| Concentration Method, Patients' Sputa for<br>T.B. ... ..           | 161         | 9         |
| Milks, Bulk Samples, Microscopic Exam-<br>inations for T.B. ... .. | 182         | 1         |
|                                                                    | <hr/> 3213  | <hr/> 580 |
| Total number examined ... ..                                       | 3793        |           |
| Milk examined by Reductase Test ...                                | 12400       |           |
| (Failed 1,181, Satisfactory 11,219)                                |             |           |
| Milks examined by Coliform Test ...                                | 6294        |           |
| Milks examined by Plate Count ...                                  | 3           |           |
| Total number of examinations made...                               | <hr/> 22490 |           |

## Statement giving Particulars of Public Health Laboratory

From Patients for T.B..

| YEAR | Sputa |      | Urines |      | Glands |      | Pleural Effusions |      | Pus. |      | Hair for Ring-worm |      | Fæces |      | Cultures |      | Total |
|------|-------|------|--------|------|--------|------|-------------------|------|------|------|--------------------|------|-------|------|----------|------|-------|
|      | Pos.  | Neg. | Pos.   | Neg. | Pos.   | Neg. | Pos.              | Neg. | Pos. | Neg. | Pos.               | Neg. | Pos.  | Neg. | Pos.     | Neg. |       |
| 1935 | 637   | 2058 | 1      | 9    | ..     | 2    | ..                | ..   | 1    | 4    | 3                  | 4    | ..    | 2    |          | ..   | 2721  |
| 1936 | 545   | 2086 | ...    | 4    | ..     | ..   | ..                | 4    |      | 3    | ..                 | ..   | ..    | 2    | ..       | ..   | 2644  |
| 1937 | 577   | 2327 | ...    | 5    | ...    | ..   | ...               | 5    | ...  | 6    | 3                  | 1    |       | 1    | ...      |      | 2925  |
| 1938 | 688   | 2333 | ...    | 8    | ...    | ..   | ...               | 3    | 1    | 6    | ...                | 1    | ...   | 3    |          | ..   | 3043  |
| 1939 | 602   | 2192 | 1      | 4    | 1      | 1    | 1                 | 6    | 1    | 15   | ..                 | ...  | ...   | 1    |          | ...  | 2825  |
| 1940 | 634   | 2496 | ...    | 10   | ...    | 1    | ...               | 18   | 1    | 9    | ...                | 1    | ...   | 1    | 18       | 153  | 3342  |
| 1941 | 594   | 2571 | ...    | 2    | ...    | ...  | ...               | 16   | 1    | 4    | 11                 | 8    | ...   | 1    | 10       | 278  | 3496  |
| 1942 | 549   | 2774 | ...    | 4    |        | ...  | 1                 | 9    | 1    | 6    | 4                  | 9    | ...   | ...  | 13       | 310  | 3680  |
| 1943 | 591   | 3021 | 1      | 4    |        | ...  | 1                 | 19   | ...  | 7    | 1                  | 5    | ...   |      | 11       | 232  | 3893  |
| 1944 | 548   | 2651 | 1      | 2    | ...    | ...  | 1                 | 15   | 1    | 14   | 1                  | 6    | 1     | ...  | 17       | 182  | 3440  |

**Specimens Examined in County  
during the Years 1935 to 1944**

| From Cows<br>for T.B. |      |       |      | Milks<br>examined<br>by<br>Reductase<br>Test | Milks<br>examined<br>by<br>Coliform<br>Test | Milks<br>examined<br>by<br>Phosphat-<br>ase<br>Test | Milks<br>examined<br>by<br>Plate<br>Count | Total<br>Number<br>of<br>Specimens<br>examined | Concentra-<br>tion<br>Method<br>Patients'<br>Sputa. |      | Total<br>Number of<br>Examina-<br>tions made |
|-----------------------|------|-------|------|----------------------------------------------|---------------------------------------------|-----------------------------------------------------|-------------------------------------------|------------------------------------------------|-----------------------------------------------------|------|----------------------------------------------|
| Milk                  |      | Sputa |      |                                              |                                             |                                                     |                                           |                                                | Pos.                                                | Neg. |                                              |
| Pos.                  | Neg. | Pos.  | Neg. |                                              |                                             |                                                     |                                           |                                                |                                                     |      |                                              |
| 54                    | 1011 | 35    | 21   | ...                                          | ...                                         | ...                                                 | ..                                        | 3942                                           | 48                                                  | 346  | 4336                                         |
| 71                    | 928  | 7     | 1    | ...                                          | ...                                         | ...                                                 | ...                                       | 3751                                           | 27                                                  | 611  | 4389                                         |
| 85                    | 892  | 7     | 4    | ...                                          | ..                                          | ...                                                 | ...                                       | 9433                                           | 25                                                  | 324  | 9782                                         |
| 58                    | 549  | 4     | ...  | 12088                                        | 12088                                       | ...                                                 | ...                                       | 27830                                          | 62                                                  | 277  | 28169                                        |
| 28                    | 1802 | ...   | ...  | 12354                                        | 12225                                       | ...                                                 | ...                                       | 29234                                          | 19                                                  | 41   | 29294                                        |
| 9                     | 1228 | ...   | ...  | 12517                                        | 12517                                       | ...                                                 | ...                                       | 29613                                          | 10                                                  | 156  | 29779                                        |
| 1                     | 104  | ...   | ...  | 11132                                        | 9000                                        | 16                                                  | 16                                        | 23765                                          | 17                                                  | 268  | 24050                                        |
| 2                     | 115  | ...   | ...  | 12376                                        | 8611                                        | 2                                                   | 22                                        | 24808                                          | 11                                                  | 310  | 25129                                        |
| 4                     | 154  | ...   | ...  | 13467                                        | 7044                                        | 12                                                  | 12                                        | 24586                                          | 11                                                  | 212  | 24809                                        |
| 1                     | 182  | ...   | ...  | 12400                                        | 6294                                        | ...                                                 | 3                                         | 22320                                          | 9                                                   | 161  | 22490                                        |

### Orthopaedic Clinics

The following table shows the attendances at the Clinics (excluding those made for sunlight treatment only):—

| Clinic                    | On registers<br>1/1/44 | Admitted<br>1944 | Dis-<br>charged<br>1944 | On registers<br>31/12/44 | Attend-<br>ances |
|---------------------------|------------------------|------------------|-------------------------|--------------------------|------------------|
| Alderley Edge..           | 3                      | —                | —                       | 3                        | —                |
| Altrincham ..             | 7                      | —                | 1                       | 6                        | 25               |
| Chester ..                | 18                     | 1                | 3                       | 16                       | 59               |
| Congleton ..              | 11                     | 1                | 5                       | 7                        | 31               |
| Crewe*                    | 62                     | 10               | 31                      | 41                       | 296              |
| Ellesmere Port            | 9                      | 1                | —                       | 6                        | 17               |
| Hoylake ..                | 4                      | 1                | —                       | 5                        | 25               |
| Hyde ..                   | 3                      | —                | —                       | 3                        | 13               |
| New Ferry ..              | 4                      | —                | —                       | 4                        | 7                |
| Northwich<br>(Parkfield)* | —                      | 26               | 2                       | 24                       | 69               |
| Runcorn ..                | 1                      | 4                | —                       | 5                        | 10               |
| Stockton Heath            | —                      | 2                | —                       | 2                        | —                |
| Total ..                  | 122                    | 46               | 46                      | 122                      | 552              |

### Artificial Sunlight Treatment

The following table shows the attendances made at various clinics by tuberculous patients:—

| Clinic                                | On registers<br>1/1/44 | Admitted<br>1944 | Dis-<br>charged<br>1944 | On registers<br>31/12/44 | Attend-<br>ances |
|---------------------------------------|------------------------|------------------|-------------------------|--------------------------|------------------|
| Altrincham Hosp.                      | 19                     | 22               | 31                      | 10                       | 832              |
| Hyde Clinic ..                        | 2                      | 4                | 4                       | 2                        | 109              |
| Liverpool, Belmont<br>Rd. Hospital    | —                      | 3                | —                       | 3                        | 142              |
| Macclesfield<br>Infirmary             | 2                      | 1                | 3                       | —                        | 36               |
| Manchester & Salford<br>Skin Hospital | 37                     | 8                | 8                       | 37                       | 589              |
| Northwich Clinic                      | 1                      | —                | 1                       | —                        | 7                |
| Stockport Infirmary                   | —                      | —                | —                       | —                        | —                |
| Warrington Infirm.                    | 3                      | 2                | 1                       | 4                        | 81               |
| Total ..                              | 64                     | 40               | 48                      | 56                       | 1796             |

\* Parkfield Orthopaedic Clinic began 28/8/44, and most of the "admissions" during 1944 are included in the "discharges" from Crewe.

## Section VI.-Maternity and Child Welfare

(By DR. JEAN R. SHAW)

### Area

The County area, for the purpose of the Midwives Acts, comprises the whole of the Administrative County, but for Maternity and Child Welfare excludes the Boroughs of Altrincham, Bebington, Crewe, Hyde, Macclesfield and Stalybridge, also the Urban Districts of Ellesmere Port, Hale and Knutsford.

### Number of Midwives in Practice

There were 368 midwives who notified their intention to practise in the County Area during 1944.

|                                             |     |
|---------------------------------------------|-----|
| County Midwives ... ..                      | 70  |
| District Nursing Association ... ..         | 105 |
| Independent Midwives ... ..                 | 78  |
| Midwives living outside the County area ... | 10  |
| In Institutions and Nursing Homes ... ..    | 103 |
| Died ... ..                                 | 1   |

There were in addition 11 midwives who did temporary duty in the various areas for District Nursing Associations.

### Inspection of Midwives

|                                                              |     |
|--------------------------------------------------------------|-----|
| Visits to District Nurses and Independent Midwives ... ..    | 362 |
| Formal Inspections ... ..                                    | 148 |
| Enquiries re Stillbirths, Pyrexia and Neonatal deaths ... .. | 157 |

#### Visits paid by Assistant Supervisor of Midwives—

|                                           |     |
|-------------------------------------------|-----|
| Inspection of County Midwives ... ..      | 293 |
| Inspection of Independent Midwives ... .. | 57  |

#### Cases visited—

|                                        |     |
|----------------------------------------|-----|
| Labours ... ..                         | 14  |
| Nursings ... ..                        | 341 |
| Antenatal ... ..                       | 434 |
| Postnatal ... ..                       | 83  |
| Pupil Midwives ... ..                  | 8   |
| Lectures to Pupils and Midwives ... .. | 6   |

### Details of County Midwives' Attendance at Cases.

| LIVE-BIRTHS.      |                      | STILL-BIRTHS.     |                      | MIS-       |
|-------------------|----------------------|-------------------|----------------------|------------|
| With<br>a Doctor. | Without<br>a Doctor. | With<br>a Doctor. | Without<br>a Doctor. | CARRIAGES. |
| 1244              | 2359                 | 59                | 25                   | 144        |

## Home Helps

During 1944 home helps have been provided in 86 homes, in the majority of the cases free of cost to the mothers.

2 Whole-time Home Helps were continuously engaged, and 54 Part-time Home Helps were also employed.

## Notifications received (Central Midwives Board Rules)

|                               |      |
|-------------------------------|------|
| Medical Aid ... ..            | 2089 |
| Stillbirths ... ..            | 34   |
| Laying out of the Dead ... .. | 31   |
| Source of Infection ... ..    | 26   |
| Artificial Feeding ... ..     | 52   |

## Puerperal Pyrexia, etc.

39 cases of Puerperal Pyrexia were notified during 1944:

39 Puerperal Pyrexia;

— Puerperal Fever;

25 Number of above cases already in hospital when notified;

4 Nursing Homes;

4 sent into hospital.

Disinfection of midwives in contact with these cases was carried out in 22 cases.

## Consultants

In 38 cases the advice and help of a consultant have been obtained for difficulties in labour or any abnormality during the puerperium.

## Nursing and Maternity Homes.

|                                               |     |
|-----------------------------------------------|-----|
| Number on the Register at the end of 1944 ... | 52  |
| Number of inspections during 1944 ... ..      | 187 |
| Number of new Homes registered in 1944 ... .. | 4   |

## Ophthalmia

There have been 37 cases of inflammation of or discharge from the eyes of new-born babies. 26 of the cases were only slight. 11 of the cases were notified as Ophthalmia Neonatorum.

The following is a description of the slight cases:—

|                           |    |
|---------------------------|----|
| One eye affected ... ..   | 14 |
| Both eyes affected ... .. | 13 |

Severe cases:—

|                           |   |
|---------------------------|---|
| One eye affected ... ..   | 1 |
| Both eyes affected ... .. | 9 |

Six of the above cases were treated in Hospital and 5 attended by Health Visitors. All the cases made good recoveries.

### **Maternal Mortality (per 1,000 live and stillbirths).**

The maternal mortality rate for 1944 was 1.94, being .57 for puerperal sepsis and 1.37 from other causes.

### **Maternity Hospitals and Homes**

During 1944 there have been 680 mothers who, through the help of the County Maternity and Child Welfare Committee, have had their confinements in a Maternity Hospital or Home. (For confinements in Clatterbridge and West Park County General Hospitals, see pp. 59 and 73.)

The confinements have taken place in the following Institutions:—

|                                             |       |
|---------------------------------------------|-------|
| Ashton-under-Lyne District Infirmary ... .. | 4     |
| Chester City Hospital ... ..                | 270   |
| Crewe Maternity Home ... ..                 | 3     |
| The Garth, Neston ... ..                    | 59    |
| Glossop Maternity Home ... ..               | 2     |
| Liverpool Maternity Hospital ... ..         | 49    |
| Longton Cottage Hospital ... ..             | 23    |
| St. Mary's Hospital, Manchester ... ..      | 160   |
| Sale War Memorial Hospital ... ..           | 25    |
| Southfields, Bowdon ... ..                  | 45    |
| Victoria Park, Warrington ... ..            | 40    |
|                                             | <hr/> |
|                                             | 680   |
|                                             | <hr/> |

### **Maternity Homes and Hostels for Evacuees.**

#### **STRETFORD EVACUATION SCHEME.**

##### *Southfields Maternity Home, Bowdon.*

There were 225 admissions to this Home during 1944.

##### *Hostel for Expectant Mothers, Denzell House, Bowdon.*

305 expectant mothers were admitted during 1944: 209 from Stretford and 80 from London.

#### **WALLASEY EVACUATION SCHEME.**

##### *The Garth Maternity Home, Neston.*

There were 39 admissions during 1944 (5 Bebington and 29 Runcorn cases included).

**Infant Life Protection.**

Number of Foster Parents on the Register, 1944... 47

Number of Children on the Register, 1944 ... .. 68

There was one death and one inquest.

**Ante-Natal and Post-Natal Clinics.**

|           | Number of<br>Sessions | Number of<br>Expectant<br>Mothers<br>(New Cases) | Number of<br>Post-Natal<br>Cases |
|-----------|-----------------------|--------------------------------------------------|----------------------------------|
| Congleton | 23                    | 180                                              | 42                               |
| Hoole     | 12                    | 88                                               | 27                               |
| Runcorn   | 52                    | 551                                              | 56                               |
| Sale .    | 36                    | 197                                              | 19                               |

During 1944 there were 1,874 expectant mothers examined by their own doctors under the County Scheme.

**Dental Report, 1944.**

|                                    |     |
|------------------------------------|-----|
| Expectant mothers inspected ... .. | 55  |
| Expectant mothers selected ... ..  | 52  |
| Expectant mothers treated ... ..   | 50  |
| Attendances ... ..                 | 154 |
| Permanent teeth extracted ... ..   | 326 |
| Permanent teeth filled ... ..      | 8   |
| Dentures fitted ... ..             | 48  |
| Teeth scaled ... ..                | 2   |
| Other operations ... ..            | 48  |

## LIST OF INFANT WELFARE CENTRES, 1944.

| Centre.                          | Weekly<br>or<br>Fortnightly. | Day<br>of<br>Centre.     | Consul-<br>tations<br>held. | Average<br>Attend-<br>ances. | Total<br>Attend-<br>ances. |
|----------------------------------|------------------------------|--------------------------|-----------------------------|------------------------------|----------------------------|
| Adswood ...<br>(Opened 1944)     | 1st and 3rd<br>Mondays       | Monday                   | 48                          | 16                           | 81                         |
| Alderley Edge ...                | Weekly                       | Friday                   | 393                         | 36                           | 1854                       |
| Alsager ...                      | Fortnightly                  | Tuesday                  | 462                         | 64                           | 1660                       |
| Andlem ...<br>(Opened 1944)      | 1st and 3rd<br>Tuesdays      | Tuesday                  | 114                         | 13                           | 320                        |
| Bollington ...                   | Fortnightly                  | Thursday                 | 464                         | 48                           | 1247                       |
| Bowdon ...                       | Fortnightly                  | Thursday                 | 326                         | 23                           | 616                        |
| Bramhall ...<br>(Opened 1944)    | Fortnightly                  | 1st and 3rd<br>Monday    | 252                         | 37                           | 819                        |
| Bredbury ...                     | Weekly<br>a.m. & p.m.        | Tuesday                  | 1095                        | 64                           | 3235                       |
| Cheadle ..                       | Fortnightly                  | Tuesday                  | 682                         | 74                           | 2813                       |
| Cheadle Hulme ...                | Fortnightly                  | Tuesday                  | 624                         | 57                           | 1446                       |
| Congleton ...                    | Weekly                       | Monday                   | 935                         | 44                           | 2158                       |
| Disley ...                       | Fortnightly                  | Tuesday                  | 417                         | 35                           | 891                        |
| Dukinfield ...                   | Twice weekly<br>a.m. & p.m.  | Wednesday &<br>Thursday  | 1812                        | 69                           | 6649                       |
| Frodsham ...                     | Fortnightly                  | Tuesday                  | 446                         | 61                           | 1589                       |
| Grappenhall ...                  | Fortnightly                  | Monday                   | 372                         | 70                           | 1609                       |
| Handforth ...                    | Fortnightly                  | 2nd and 4th<br>Mondays   | 351                         | 30                           | 655                        |
| Haslington ...                   | Fortnightly                  | Tuesday                  | 133                         | 36                           | 938                        |
| Hazel Grove ...                  | Weekly                       | Thursday                 | 686                         | 68                           | 3298                       |
| Heswall ...                      | Fortnightly                  | Monday                   | 328                         | 76                           | 1995                       |
| High Lane ...                    | Fortnightly                  | Tuesday                  | 359                         | 26                           | 699                        |
| Hollingworth ...                 | Fortnightly                  | Thursday                 | 244                         | 49                           | 1277                       |
| Hoole ...                        | Weekly                       | Tuesday                  | 1089                        | 60                           | 4953                       |
| Hoylake ...                      | Weekly                       | Thursday                 | 236                         | 51                           | 2654                       |
| Irby ...                         | Fortnightly                  | Monday                   | 167                         | 34                           | 890                        |
| Lymm ...                         | Weekly                       | Tuesday                  | 238                         | 38                           | 1875                       |
| Lndworth, Mellor<br>and District | Fortnightly                  | Thursday                 | 383                         | 41                           | 1045                       |
| Malpas ..                        | Fortnightly                  | Monday                   | 274                         | 13                           | 303                        |
| Marple ...                       | Weekly                       | Wednesday                | 958                         | 62                           | 3231                       |
| Middlewich ...                   | Weekly                       | Monday                   | 1294                        | 33                           | 1617                       |
| Mobberley ...                    | Fortnightly                  | Tuesday                  | 658                         | 25                           | 658                        |
| Nantwich ...                     | Weekly                       | Thursday                 | 636                         | 62                           | 3210                       |
| Neston ...                       | Weekly                       | Thursday                 | 404                         | 43                           | 2189                       |
| Northwich ...<br>(Rural)         | Weekly                       | Thursday                 | 1102                        | 42                           | 2204                       |
| Northwich ...<br>(Urban)         | Weekly                       | Tuesday                  | 1606                        | 64                           | 3284                       |
| Partington ...                   | Fortnightly                  | Thursday                 | 116                         | 22                           | 578                        |
| Poynton ...                      | Fortnightly                  | Thursday                 | 470                         | 60                           | 1549                       |
| Romiley ...                      | Weekly                       | Thursday                 | 802                         | 34                           | 1757                       |
| Runcorn ...                      | Weekly<br>a.m. & p.m.        | Wednesday                | 1525                        | 47                           | 4525                       |
| Sale ...                         | Weekly                       | Tuesday &<br>Thursday    | 3167                        | 60                           | 7758                       |
| Sandbach ...                     | Weekly                       | Tuesday                  | 1137                        | 38                           | 1942                       |
| Scholar Green ..                 | Fortnightly                  | 2nd & 4th<br>Wednesday   | 432                         | 28                           | 688                        |
| Stockton Heath...                | Fortnightly                  | Monday                   | 559                         | 63                           | 1594                       |
| Sutton ...                       | Fortnightly                  | 2nd and 4th<br>Wednesday | 60                          | 12                           | 130                        |
| Tarporley ...                    | Fortnightly                  | Thursday                 | 366                         | 23                           | 598                        |
| Upton ...                        | Fortnightly                  | 1st and 3rd<br>Thursday  | 82                          | 36                           | 184                        |
| Utkinton ...                     | Fortnightly                  | Thursday                 | 256                         | 10                           | 256                        |
| Weaverham ...                    | Fortnightly                  | Tuesday                  | 445                         | 30                           | 770                        |
| Wilmslow ...                     | Weekly                       | Thursday                 | 1169                        | 60                           | 3040                       |
| Winsford ...                     | Weekly                       | Friday                   | 991                         | 28                           | 1373                       |

### Artificial Sunlight Treatment

The following table shows the attendances made at the various clinics by non-tuberculous patients:—

| Clinic.                                 | Patients<br>at<br>1/1/44 | Admitted<br>during<br>1944 | Discharged<br>during<br>1944 | Patients<br>at<br>31/12/44 | Attend-<br>ances at<br>Clinics |
|-----------------------------------------|--------------------------|----------------------------|------------------------------|----------------------------|--------------------------------|
| Hyde Clinic ..                          | 7                        | 5                          | 11                           | 1                          | 96                             |
| Northwich Clinic<br>(Victoria Infirm'y) | —                        | 4                          | 2                            | 2                          | 41                             |
|                                         | 7                        | 9                          | 13                           | 3                          | 137                            |

### Orthopaedic Scheme

The Orthopaedic Scheme includes treatment for all orthopaedic conditions occurring in children under 5 years of age. During 1944 there were 2,171 attendances of 478 patients (non-tuberculous) at the Clinics, and 51 cases received institutional treatment.

The following table shows the attendances made at the various Orthopaedic Clinics (excluding those for Sunlight only).

| Clinic.           | Patients<br>at<br>1/1/44 | Admitted<br>during<br>1944 | Discharged<br>during<br>1944 | Patients<br>at<br>31/12/44 | Attend-<br>ances at<br>Clinics |
|-------------------|--------------------------|----------------------------|------------------------------|----------------------------|--------------------------------|
| Alderley Edge ..  | 45                       | 30                         | 17                           | 58                         | 237                            |
| Altrincham ..     | 14                       | 7                          | 10                           | 11                         | 102                            |
| Chester ..        | 7                        | 2                          | 4                            | 5                          | 12                             |
| Congleton ..      | 22                       | 11                         | 18                           | 15                         | 127                            |
| Crewe*            | 71                       | 25                         | 45                           | 51                         | 207                            |
| Ellesmere Port .. | 2                        | 3                          | 2                            | 3                          | 42                             |
| Hoylake ..        | 23                       | 29                         | 13                           | 39                         | 495                            |
| Hyde ..           | 6                        | 3                          | 3                            | 6                          | 25                             |
| New Ferry ..      | —                        | 3                          | —                            | 3                          | 35                             |
| Northwich Infirm. | 1                        | —                          | 1                            | —                          | 43                             |
| „ (Parkfield)*    | —                        | 25                         | 8                            | 17                         | 77                             |
| Runcorn ..        | 63                       | 56                         | 39                           | 80                         | 579                            |
| Stockton Heath..  | 13                       | 17                         | 7                            | 23                         | 190                            |
|                   | 267                      | 211                        | 167                          | 311                        | 2171                           |

### Institutional Treatment

51 children received institutional treatment during 1944—33 boys and 18 girls. Of these, 16 were orthopaedic cases, and 35 medical and surgical cases.

The following table shows the hospitals and clinics where treatment was carried out, and the conditions from which the children were suffering.

\* Parkfield Orthopaedic Clinic began 28/8/44, and most of the “admissions” during 1944 are included in the “discharges” from Crewe.

|                              | M. & C. W.<br>1944             | Orthopaedic<br>Hospital<br>Hartshill | Children's<br>Hospital,<br>Heswall | Hospital for<br>Children,<br>Leasowe | Duchess of<br>York Babies'<br>Hospital,<br>Manchester | Orthopaedic<br>Hospital,<br>Oswestry | Total |
|------------------------------|--------------------------------|--------------------------------------|------------------------------------|--------------------------------------|-------------------------------------------------------|--------------------------------------|-------|
|                              | Boys .. .. .                   | 1                                    | 3                                  | 5                                    | 21                                                    | 3                                    | 33    |
|                              | Girls .. .. .                  | 1                                    | ..                                 | 3                                    | 10                                                    | 4                                    | 18    |
| Orthopaedic                  | Club Foot .. .. .              | ..                                   | ..                                 | ..                                   | ..                                                    | 1                                    | 1     |
|                              | Cong. abnormality (forearm) .. | ..                                   | ..                                 | ..                                   | ..                                                    | 1                                    | 1     |
|                              | Hip (dislocation of) .. .. .   | ..                                   | ..                                 | 3                                    | ..                                                    | 1                                    | 4     |
|                              | Metatarsus Varus .. .. .       | 1                                    | ..                                 | ..                                   | ..                                                    | 1                                    | 1     |
|                              | Perthes' Disease .. .. .       | ..                                   | ..                                 | ..                                   | ..                                                    | 1                                    | 1     |
|                              | Poliomyelitis .. .. .          | ..                                   | ..                                 | ..                                   | ..                                                    | 1                                    | 1     |
|                              | Rickets .. .. .                | 1                                    | 1                                  | 2                                    | ..                                                    | 1                                    | 4     |
|                              | Spastic Diplegia .. .. .       | 1                                    | ..                                 | ..                                   | ..                                                    | 1                                    | 1     |
|                              | Spina Bifida .. .. .           | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Talipes Equinus .. .. .        | ..                                   | ..                                 | ..                                   | ..                                                    | 1                                    | 1     |
| Various Medical and Surgical | Abdominal Distension .. .. .   | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Abscesses (various) .. .. .    | ..                                   | ..                                 | ..                                   | 2                                                     | ..                                   | 2     |
|                              | Cervical Adenitis .. .. .      | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Cirrhosis .. .. .              | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Coeliac Disease .. .. .        | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Colic (abdominal) .. .. .      | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Debility .. .. .               | ..                                   | 1                                  | 2                                    | ..                                                    | ..                                   | 3     |
|                              | Diarrhoea .. .. .              | ..                                   | ..                                 | ..                                   | 2                                                     | ..                                   | 2     |
|                              | Dyspepsia .. .. .              | ..                                   | ..                                 | ..                                   | 5                                                     | ..                                   | 5     |
|                              | Empyema .. .. .                | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Eczema .. .. .                 | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Gastro-Enteritis .. .. .       | ..                                   | ..                                 | ..                                   | 2                                                     | ..                                   | 2     |
|                              | Hare-lip .. .. .               | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Jaundice .. .. .               | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Marasmus .. .. .               | ..                                   | 1                                  | ..                                   | ..                                                    | ..                                   | 1     |
|                              | Oedema .. .. .                 | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Pneumonia .. .. .              | ..                                   | ..                                 | 1                                    | 1                                                     | ..                                   | 2     |
|                              | Prematurity .. .. .            | ..                                   | ..                                 | ..                                   | 2                                                     | ..                                   | 2     |
|                              | Pyloric Stenosis .. .. .       | ..                                   | ..                                 | ..                                   | 4                                                     | ..                                   | 4     |
|                              | Pylorospasm .. .. .            | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |
|                              | Volvulus .. .. .               | ..                                   | ..                                 | ..                                   | 1                                                     | ..                                   | 1     |

## Section VII.

### Milk (Special Designations) Orders, 1936-41

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At the time of this report there were 3,206 Accredited Milk Licences and 155 Tuberculin Tested Licences in force in the County.

During the year, greatly increased interest has been shown by farmers in the possibility of their becoming producers of Tuberculin Tested Milk, and in this connection the work done in recent years encouraging the smaller farmer who keeps only a few cows to produce Accredited milk is yielding a good dividend in that these small producers, having become accustomed to the production of a Designated milk, are now wishing to produce the higher grade Tuberculin Tested milk. This is a very satisfactory state of affairs, since quite a large number of the smaller producers are retailers as well, and thus we shall be getting the ideal of the supply of Tuberculin Tested milk direct from the farm to the consumer.

The designations used in connection with the sale of special designated milks appear to cause some confusion among the general public, and it would seem advisable, for the benefit of the housewife who has to decide what grade of milk to buy for her family, for the designations to be simplified, or some educational publicity given to the subject.

The special designations which may be used under the Milk (Special Designations) Orders, 1936-1941, are "Tuberculin Tested," "Accredited," and "Pasteurised," but in certain circumstances these designations may be qualified; thus, if Tuberculin Tested Milk is bottled on the farm it may be described as Tuberculin Tested Milk (Certified). Should Tuberculin Tested milk be pasteurised, it must be described as Tuberculin Tested Milk (Pasteurised). Accredited milk that is bottled on the farm may be described as Accredited Milk (Farm Bottled).

The standards laid down in the Orders for the different categories of milk are set out below:—

Tuberculin Tested Milk (Certified);

Tuberculin Tested Milk:

From 1st May to 31st October must not decolourise methylene blue in  $4\frac{1}{2}$  hours.

From 1st November to 30th April must not decolourise methylene blue in  $5\frac{1}{2}$  hours.

There must be no coliform bacillus in 1/100 millilitre.

Accredited Milk (Farm Bottled);

Accredited Milk:

From 1st May to 31st October must not decolourise methylene blue in  $4\frac{1}{2}$  hours.

From 1st November to 30th April must not decolourise methylene blue in  $5\frac{1}{2}$  hours.

There must be no coliform bacillus in 1/100 millilitre.

Pasteurised Milk:

Must not contain more than 100,000 bacteria per millilitre.

Tuberculin Tested Milk (Pasteurised):

Must not contain more than 30,000 bacteria per millilitre.

Steady progress has been maintained in the improvement of farm buildings and special attention has been given to the equipment of dairies. Modern clean milk production, to satisfy the many tests now carried out, requires modern equipment, and a dairy to be really efficient needs not only good cooling apparatus but a sterilizing chest, steaming stool for tankards, pressure steam jets for milking machine units, and a two-compartment galvanised iron wash-tank. An adequate supply of steam under pressure is very essential, and care is taken to advise farmers on the best types of steaming equipment to obtain in order to ensure that it is capable of raising and maintaining a sufficient head of steam for efficient sterilisation.

Co-operation between the Sanitary Inspectors of the District Councils and the County staff is most marked, and a great deal of good work has been the happy result.

## Section VIII.-Food and Drugs Act, 1938.

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The Chief Inspector of Weights and Measures (Mr. Stacey Hallard) briefly reports on the work of his Department, so far as it relates to the sampling of foods and drugs, as follows:—

During the year 1944 a total of 2,084 samples of foods and drugs were obtained within the area for which the County Council is the "Food and Drugs Authority," i.e., the whole of the Administrative County of Cheshire excepting the Municipal Borough of Crewe. Of this total 1,216 were milk samples taken at random in the streets and public places or as a result of complaints from one or other of the large Dairy Companies. All the samples were submitted to the Public Analyst for analysis and 171 were certified as adulterated or otherwise failing to reach the legal or recognised standard of purity. 156 non-standard samples of milk were included in the total and of these 62 contained added water in amounts varying from a minimum of 1.2 per cent. to a maximum of 55.5 per cent; the others failed to comply with the Sale of Milk Regulations, 1939, in respect of a deficiency in fat or non-fatty solids or both. In these latter instances many of the samples, even though below standard, were certified as "genuine but abnormal." In such cases, where the sample was deficient in non-fatty solids, the application of the Freezing Point test proved conclusively that the deficiency was due solely to causes over which the farmer or smallholder had no control, i.e., to some abnormality in the herd producing the milk.

It should be noted that the figure of 156 non-standard milk samples is slightly higher than the figure (145) shown in the 1943 report. This is partly accounted for by the fact that seventeen experimental samples were taken from an individual cow in connection with the prosecution of a farmer for selling milk containing added water. The point at issue was that the defendant, on receiving a summons charging him with selling milk containing added water, suggested that the trouble was due to his cows having been injected with Stilboestrol Dipropionate (a drug used in connection with calving) some time before the sample, on which the prosecution rested, was taken. In order to be in a position to advise the Magistrates on this question, permission was obtained from a farmer in another locality to allow one of his cows to be used for experimental purposes. It so happened that the particular cow chosen to be injected with the drug proved,

even before the test, to be giving milk below the standard, and as might be expected, the whole range of samples obtained following the injection was also found to be non-standard. The experiments proved conclusively that such injections had no adverse effect on the quality of the milk produced.

Another factor which has increased the non-standard figure concerned a large consignment of milk from a farmer to a Dairy Company. A sample was taken out of each of sixteen churns, and all failed to reach the standard in either fat or non-fatty solids, but in no case was the deficiency serious enough to warrant legal proceedings being instituted. In fact, practically all the samples were certified as "genuine but abnormal" and accordingly were not a cause for great concern. The farmer, as in most other cases of a similar character, was visited and advised on the best methods of bringing his milk up to standard quality.

As distinct from these cases of abnormality there remains the number of 62 samples which contained extraneous water, and this reflects the length to which some traders will go in order either to increase the amount of milk they have available for their customers or—and this is the most likely reason—to glean a quick illicit profit.

By far the most serious case of "watered" milk brought to light during the year concerned a consignment of ten churns of milk from a farmer to a Dairy Company. Samples were taken from each churn and when the certificates of the Public Analyst were to hand it was found that the *least* adulterated of the churns contained over 25 per cent. of added water and that the worst churn contained over 55 per cent. of added water! In fact this consignment of ten churns contained over forty gallons of water! At the subsequent hearing of the prosecution the defendant was fined the maximum penalty of £20 on each of ten summonses, i.e., £200 together with costs.

Regarding samples other than milk, out of the 868 obtained only 15 were certified as non-standard, or not of the recognised commercial quality. In the following brief summary the analysis of these samples is shown in parenthesis:—

Vinegar (artificial vinegar).—Retail sale from the cask into the purchaser's own bottle but no declaration made by the seller that the vinegar was artificial vinegar. Seller cautioned.

Vinegar (deficient in Acetic Acid, the characteristic constituent, to the extent of 10 per cent.).—No further action

was possible as manufacturer's works were found to have closed down between date of bottling of the vinegar and the retail sale at shop.

Sweet Spirit of Nitre (68.8 per cent. deficient in Ethyl Nitrite).—Loss of strength was probably due to volatilisation. Seller was cautioned.

Whisky (3.7 per cent. excess water).—Summonses issued against Brewery Company and their Manageress. Total penalty inflicted, £12. 1s. 0d.

Whisky (5.2 per cent. excess water).—Seller Fined £20.

Whisky (13.9 per cent. excess water).—Seller Fined £20.

Strong Tincture of Iodine (Double Strength strong tincture of iodine).—Sample was, in fact, double the strength it should have been had it been prepared in accordance with the British Pharmacopoeia. As the bottle had been supplied to the shop some three years previously it was impossible to trace the cause of the trouble. The Manufacturers were notified of the analysis and warned.

Golden Raising Powder (18 per cent. deficient in available Carbon Dioxide and 51 per cent. excess of non-reactive Carbon Dioxide).—Sample was purchased at retail shop at about the time the new standard for this commodity came into force. All remaining stock was withdrawn from sale.

Baking Powder (65.6 per cent. deficient in available Carbon Dioxide).—The powder had deteriorated through being in shop over two years.

Baking Powder (23.7 per cent. deficient in available Carbon Dioxide).—This sample was taken from old stock in the stores at a County Hospital.

Baking Powder (85.2 per cent. deficient in available Carbon Dioxide).—As in the two previous cases, this was old stock that had deteriorated through long storage.

Lime Water (58.6 per cent. deficient in Calcium Hydroxide).—This was an informal sample purchased from a retail shop.

Lime Water (85 per cent. deficient in Calcium Hydroxide).—This sample, taken with all the formalities of the Act, was from the same source as the preceding sample. The seller was prosecuted and ordered to pay 14/6d. costs.

Seidlitz Powder (22 per cent. deficient in Tartaric Acid).—This was an informal sample purchased at a chemist's shop.

A formal sample could not be obtained as the chemist had no further packets, from the same wholesaler, in stock. The manufacturers were, however, cautioned.

Dried Parsley (contaminated with arsenic; arsenic expressed as arsenious oxide—10 parts per million, equivalent to approximately one fourteenth of a grain per pound).—Sample was purchased at a retail shop. Contamination was probably due to the fumes from a coke fire used for drying the parsley. Manufacturers were cautioned.

In conclusion it is a pleasure to draw attention to the fact that following the steady rise in the percentage of samples reported as adulterated or non-standard, which reached its peak in 1941 and 1942, the figure for 1944 was slightly less than that for the preceding year, which in itself was the first year since the outbreak of War in which there was a decline in the samples certified against. This will be clearly seen from the following list:—

| <i>Year</i> | <i>Percentage of samples<br/>certified as non-standard</i> |
|-------------|------------------------------------------------------------|
| 1938 ... .. | 5.4 per cent.                                              |
| 1939 ... .. | 6.5 per cent.                                              |
| 1940 ... .. | 9.0 per cent.                                              |
| 1941 ... .. | 11.5 per cent.                                             |
| 1942 ... .. | 11.5 per cent.                                             |
| 1943 ... .. | 8.3 per cent.                                              |
| 1944 ... .. | 8.2 per cent.                                              |

It should be noted that the percentage of adulteration is still high compared with pre-war, and I do not anticipate that the figure will be materially reduced until such time as there is an abundant supply of milk, sufficient in fact to make it unnecessary for unscrupulous traders to increase the amount with the aid of the village pump.

## Section IX. Mental Deficiency

### Particulars of Mental Defectives as on 31st December

#### A. Number of Cases "Subject to be dealt with":—

##### 1. Under "Order":—

|                                                          |  | 1943 |     |     | 1944 |     |     |
|----------------------------------------------------------|--|------|-----|-----|------|-----|-----|
|                                                          |  | M.   | F.  | T.  | M.   | F.  | T.  |
| (a) (1) In Institutions (excluding cases on Licence)—    |  |      |     |     |      |     |     |
| Under 16 years of age ..                                 |  | 28   | 27  | 55  | 34   | 26  | 60  |
| Aged 16 years and over ..                                |  | 165  | 156 | 321 | 166  | 159 | 325 |
| (2) On Licence from Institutions—                        |  |      |     |     |      |     |     |
| Under 16 years of age ..                                 |  | —    | —   | —   | 1    | —   | 1   |
| Aged 16 years and over ..                                |  | 18   | 13  | 31  | 11   | 11  | 22  |
| (b) (1) Under Guardianship (excluding cases on Licence)— |  |      |     |     |      |     |     |
| Under 16 years of age ..                                 |  | —    | —   | —   | —    | —   | —   |
| Aged 16 years and over ..                                |  | 1    | —   | 1   | 1    | —   | 1   |
| (2) On Licence from Guardianship—                        |  |      |     |     |      |     |     |
| Under 16 years of age ..                                 |  | —    | —   | —   | —    | —   | —   |
| Aged 16 years and over ..                                |  | —    | —   | —   | —    | —   | —   |

##### 2. In "Places of Safety":—

|                           |   |   |   |   |   |   |
|---------------------------|---|---|---|---|---|---|
| Under 16 years of age ..  | — | — | — | — | — | — |
| Aged 16 years and over .. | — | 1 | 1 | — | — | — |

3. Under Statutory Supervision .. 481 446 927 495 455 950

4. Action not yet taken under any of the above headings (in receipt of Poor Law Relief, domiciliary) .. .. 37 51 88 37 41 78

#### B. Number of Cases who may become "Subject to be dealt with":—

##### (1) In Institutions or under Guardianship—dealt with under Sec. 3:—

(a) In regard to whom the Local Authority contributes under its permissive powers .. .. . — 2 2 — 1 1

(b) Maintained wholly by parents, relatives or others .. .. . 29 8 37 30 9 39

(2) Reported to the Local Authority from any reliable source, but as to whom no action has been taken .. .. . — — — — —

(3) Under Voluntary Supervision .. .. . — — — — —

### Ascertainment

The methods of ascertainment are the same as in previous years. Every effort is made to obtain particulars of all mental defectives in the County. Health Visitors, District Nurses, Relieving Officers, Head Teachers, parents and various officials report cases, and all persons whose work makes defectives known to them are well aware of the Authority to which information should be supplied.

**Provision of Institutional Accommodation (Excluding Cases  
on Licence) at 31st December**

|                                                                            | 1943 |     |     | 1944 |     |     |
|----------------------------------------------------------------------------|------|-----|-----|------|-----|-----|
|                                                                            | M.   | F.  | T.  | M.   | F.  | T.  |
| <i>Institution for Defectives provided by the State—</i>                   |      |     |     |      |     |     |
| Rampton State Institution, Retford .. ..                                   | —    | 1   | 1   | —    | 1   | 1   |
| <i>Institution provided for Defectives by Cheshire<br/>Joint Board—</i>    |      |     |     |      |     |     |
| Cranage Hall, .. .. .                                                      | 86   | 114 | 200 | 89   | 119 | 208 |
| <i>Institution provided for Defectives by Cheshire<br/>County Council—</i> |      |     |     |      |     |     |
| Mary Dendy Homes, Alderley Edge.. ..                                       | 47   | 26  | 73  | 48   | 26  | 74  |
| <i>Institution provided for Defectives by other Local<br/>Authority—</i>   |      |     |     |      |     |     |
| Calderstones (Lancashire Mental Hospitals<br>Board) .. .. .                | 3    | —   | 3   | 3    | —   | 3   |
| <i>Other Certified Institutions for Defectives—</i>                        |      |     |     |      |     |     |
| Besford Court, Worcester .. .. .                                           | —    | —   | —   | —    | —   | —   |
| Brentry Colony, Bristol .. .. .                                            | 4    | —   | 4   | 5    | —   | 5   |
| Dovecot, Knotty Ash, Liverpool .. .. .                                     | —    | 2   | 2   | —    | 1   | 1   |
| Gillibrand Hall, Chorley .. .. .                                           | —    | 1   | 1   | —    | 2   | 2   |
| Hillside, Buntingford .. .. .                                              | 1    | —   | 1   | 1    | —   | 1   |
| Lisieux Hall, Chorley .. .. .                                              | 1    | —   | 1   | 1    | —   | 1   |
| Pontville R.C. Inst., Liverpool .. .. .                                    | —    | —   | —   | —    | —   | —   |
| Princess Christian's Farm Colony, Hilden-<br>borough, Kent .. .. .         | —    | 1   | 1   | —    | 1   | 1   |
| Royal Albert Institution, Lancaster .. ..                                  | 4    | 5   | 9   | 4    | 5   | 9   |
| Royal Earlswood Institution, Redhill.. ..                                  | 1    | —   | 1   | 1    | —   | 1   |
| St. Mary's Home, Alton .. .. .                                             | —    | 1   | 1   | —    | 1   | 1   |
| St. Raphael's Colony, Brentford .. .. .                                    | 1    | —   | 1   | 2    | —   | 2   |
| Stoke Park Colony, Stapleton, Bristol ..                                   | 12   | 11  | 23  | 10   | 11  | 21  |
| Swinton Home, Manchester .. .. .                                           | —    | 2   | 2   | —    | 2   | 2   |
| Totterdown Hall, Weston-super-Mare .. ..                                   | —    | 1   | 1   | —    | 1   | 1   |
| Whittington Hall, Chesterfield .. .. .                                     | —    | 2   | 2   | —    | 2   | 2   |
| <i>Certified Public Assistance Institutions—</i>                           |      |     |     |      |     |     |
| Arclid House, Sandbach (Cheshire C.C.) ..                                  | 31   | 8   | 39  | 33   | 8   | 41  |
| The Lodge, Caersws (Montgomeryshire C.C.)                                  | 1    | 3   | 4   | 1    | 1   | 2   |
| Seafeld House, Seaforth (Lancashire C.C.)..                                | 2    | —   | 2   | 2    | —   | 2   |
| Ashton House, Birkenhead (Birkenhead C.B.)                                 | —    | 4   | 4   | —    | 5   | 5   |
| Total .. .. .                                                              | 192  | 184 | 376 | 199  | 187 | 386 |

For detailed information on the Mary Dendy Homes see Section XI.

### **Guardianship**

At the 31st December, 1944, there was 1 case under Guardianship, as compared with 1 at the end of 1943. All necessary care is exercised in the approval of Guardians, and in suitable cases the provisions of Section 30 (e) of the 1913 Act have been utilised.

### **Supervision**

Statutory supervision is carried out by the County Health Visitors, who visit each case several times during the year and report quarterly on their visits. There were 950 cases so supervised at 31.12.44, compared with 927 at 31.12.43.

### **Occupation Centres and Home Training**

There are no occupation centres in the County, which is mainly rural in character.

No provision has been made for Home Training.

### **Licence, Discharge and After-Care**

At the end of 1944 there were 22 cases on licence from Institutions and none on licence from guardianship, as compared with 31 and none at 31.12.43. The care exercised in the selection of cases and regularity of visitation has resulted in the success of the Council's policy under this heading.

Ten cases who had been on licence from an Institution were discharged during the year under review.

## Section X.-Welfare of the Blind

### General

The requirements of the Blind Persons Acts, 1920-38, are met by the Council in its revised Scheme for the Welfare of Blind Persons, dated May, 1931. The provisions of this Scheme are executed, subject to the general administrative supervision of the Blind Persons Inter-Sub-Committee of the Council, by the Blind Welfare Societies at Chester, Ashton-under-Lyne and Macclesfield, which receive annual grants in accordance with the Scheme of the Minister of Health under the Local Government Act, 1929. The closest co-operation is maintained with these Societies, and the various services rendered by them continue to be entirely satisfactory.

### Certification

To ensure that no person's name is placed on the register without the certificate of a medical practitioner with special experience in ophthalmology, all applicants are examined by the County Oculists. Those who wish may be examined a second time under the Medical Referee Service—conducted jointly with the Northern Counties Association—by independent Medical Referees.

### Statistics

Number of Registered Blind Persons in the County at  
31st March

|                           | 1944        |
|---------------------------|-------------|
| Under 5 years .. .. .     | 3           |
| 5—16 years .. .. .        | 23          |
| 16—21 years .. .. .       | 7           |
| 21—40 years .. .. .       | 114         |
| 40—50 years .. .. .       | 108         |
| 50—65 years .. .. .       | 267         |
| 65—70 years .. .. .       | 143         |
| 70 years and over .. .. . | 471         |
| Unknown age .. .. .       | 4           |
| Total .. .. .             | <u>1140</u> |

Registered Blind Persons in County, aged over 16 years, employed,  
or otherwise, at 31st March

|                                             | 1944 |
|---------------------------------------------|------|
| Employed { in Workshops & Workrooms .. .. . | 27   |
| { as Home workers .. .. .                   | 25   |
| { variously .. .. .                         | 47   |
| Unemployed .. .. .                          | 1010 |
| Undergoing Training .. .. .                 | 5    |

### **Workshop Employees**

Annual grants were continued at a fixed rate per head to recognised Workshops for Cheshire employees. A "minimum wage" principle has been adopted for certain workers, their income being made up to a fixed amount. On this principle there were 3 male employees at Henshaw's at the end of 1944, while on the fixed rate system there were 3 males at Liverpool, and 2 females at Henshaw's.

### **Home Workers**

The three voluntary societies arrange for the employment at home of those capable of it. Augmentation of 20/- weekly was given by the Council to all County approved Workers, who numbered 35 at the end of 1944.

### **Homes Residents**

Annual grants in accordance with the Local Government Act Scheme are paid to several organisations, subject to the same services continuing to be rendered on behalf of Cheshire residents in Homes for the Blind; additional capitation grants of £13 a year are made for new entrants, whose maintenance charges are also paid by the Committee if necessary. At the end of 1944, there were 8 Cheshire residents being so maintained in the Homes of the Manchester and Salford Society and 7 in the Homes of Henshaw's Institution.

### **National Library for the Blind**

Grant at the rate of £50 a year was made in 1944 to the National Library for the Blind on behalf of each of 3 Cheshire Home Workers who were Blind Copyists for its northern branch, apart from the usual annual grant for general services, which are used by over 100 Cheshire residents.

### **Other Services**

The usual annual grants were continued in 1944 to the National Institute for the Blind and the Northern Counties Association for their respective national and regional services.

### **Wireless Certificates**

76 Certificates entitling the recipients to a free wireless licence were issued in 1944 to applicants on the register.

### **Necessitous Blind**

In its Scheme under the Local Government Act, 1929, the Council made a declaration that all domiciliary assistance to necessitous blind persons should be henceforth

provided by virtue of the Blind Persons Act and not as Poor Relief. The Council's revised Scheme for Domiciliary Assistance, dated April, 1938, provided that the weekly income of every adult registered blind person be increased where necessary to 25/-, and that of a married blind couple to between 30/0d. and 45/0d., according to circumstances, and that such persons might be eligible for extra grant on account of dependants. The scale became subject to a war bonus of 2/6d. from 16.5.40, a second 2/6d. from 21.5.42, a third 2/6d. from 6.1.44, and a fourth 2/6d. from 4.1.45.

In 1944 grants were made by the Blind Persons Inter-Sub-Committee in 137 cases, and withheld in 1. Grants reported as ceased, owing to death of recipient, or otherwise, numbered 133.

At the end of the calendar year 1944, there were 733 weekly grants so made to blind persons in the County.

At the end of the financial year 1944-45, there were 735 weekly grants so made to blind persons in the County.

## Section XI.-County Institutions

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### REPORT OF THE MEDICAL SUPERINTENDENT OF CLATTERBRIDGE COUNTY HOSPITAL

The manifold effects of D-day have been perhaps the greatest influence on the work of Hospitals generally during 1944, and to a considerable extent on Clatterbridge. The Ministry of Health prepared for it by warning Hospitals nearly a month before that they should admit only patients whose illness was acute and to some degree urgent. This ban on other admissions had not been withdrawn by the end of the year. In consequence, nearly every aspect of our activities shows diminution, the maternity work alone excepted. This restriction on admissions helped considerably in overcoming another problem which might have been very serious, for in July the hutted Hospital had to be evacuated so that the total bed accommodation in the entire Hospital was more than halved. In 1939 and 1942 this hutted Hospital was erected for the Ministry of Health on that portion of the grounds lying beyond the Clatter Brook. It was never at any time fully occupied and was staffed almost entirely by members of the Civil Nursing Reserve.

In January, 1944, work began on a new hutted Hospital for the American Military Authorities, the hutted Hospital which had been used being incorporated in this large American Hospital. Upon leaving the hutted Hospital, room had of course to be found elsewhere for the patients so displaced. This was done in two ways. In the first place the Ministry were requested to provide for their Chest Surgical Unit, which was transferred to Broadgreen E.M.S. Hospital. I regret this consequence of the Ministry's decision, as the work done by this Unit was of a very high order. In the second place, extra accommodation was found by once again converting the building variously known as the Recreation Room and the Chapel (and originally the Guardians' Board Room) into a ward—Ward A.3. Another twenty-five beds were found in the building known as A.1, at one time also a ward, but discontinued for several years and providing a mess room for non-resident workers and storage space for the dispensary. Thus the nurses have been deprived of their only remaining recreational facility.

It will be remembered that the erection of the extensions to the Nurses' Home caused the removal in 1939 of the tennis courts. The loss of the hutted Hospital entailed the loss of

ground on which hockey had been played. I regret to say that the Nurses' Sports Club, which in previous years proved such a popular and valuable institution, has suffered grievously, and while not absolutely defunct, is in a state of suspended animation. The Management Committee has approved as a temporary measure the erection of a Recreation Hall behind the Maids' Home. This Hall will incorporate the huts presented by Lord Leverhulme and by the Mayor of Bebington in connection with the work previously done by us in the hutted Hospital; these huts were transferred from their position in the hutted Hospital by the Contractors for the American Hospital. I hope that the Recreation Hall will be completed as soon as possible.

Several other events deserve a word of comment. First, penicillin became available for civilian use in September, 1944. This new drug calls for closer bacteriological supervision than any other drug introduced into medicine, and renders the need for increase in staff in the Pathological Laboratory quite irresistible. At the time of writing, negotiations are being carried on with the Birkenhead Corporation.

Secondly, the Ministries of Health and of Labour have pressed the claims of "rehabilitation" strongly upon Hospitals. For this purpose they have encouraged Hospitals to erect and equip new departments. The Management Committee of this Hospital in April, 1944, approved plans for the erection of a hut for this new department at an estimated cost of £1,500. In September the Ministry of Health signified their approval in principle. But as Hospitals everywhere are doing the same, there is a long waiting list for materials, and our hut has not been begun at the time of writing (February, 1945). It is only to be expected that the greatest difficulty in obtaining staff to work in it will likewise be met for similar reasons.

## Staff

The death of Mr. T. Hartley Martin, Consulting Orthopaedic Surgeon to the Hospital, was reported to the Committee last October. His association with the Hospital was a peculiarly close one, and had lasted for fifteen years. During the year also Miss Collins, one of the Assistant Cooks, died after a long and painful illness.

The closure of the hutted Hospital entailed the transfer of very large numbers of staff supplied by the Civil Nursing Reserve. The remaining establishment of nurses was finally fixed at 156, of whom 99 are Student Nurses in training and 9 are Nursing Auxiliaries. Several of the trained C.N.R.

staff were retained to fill vacancies temporarily on the Hospital staff, and one was appointed to the position of Assistant Sister Tutor in September. Another new appointment is that of Departmental Maternity Sister. This position is a new one, made at the instance of the Central Midwives Board in connection with the Maternity Nursing Part I. Training School, which was due to start at the beginning of 1945.

The Training School for Nurses continues to work smoothly and well. During the year, the State Examination results were as follows:—

|         | <i>Preliminary</i> |                 | <i>Final</i> |
|---------|--------------------|-----------------|--------------|
|         | <i>Part I.</i>     | <i>Part II.</i> |              |
| Entries | 44                 |                 | 20           |
| Passes  | 34                 |                 | 17           |

During the year the Committee decided to award a book prize to the runner-up in each class in addition to the medallist. The prizes were presented by the Chairman in October.

|          | <i>Medallist</i> | <i>Runner-up</i> |
|----------|------------------|------------------|
| 3rd year | Nurse McLelland  | Nurse Apter      |
| 2nd year | Nurse Chalkley   | Nurse Thomas     |
| 1st year | Nurse Astbury    | Nurse Middleton  |

I cannot allow mention of this part of the Hospital's work to pass without a renewed tribute to Dr. Yeoman as lecturer.

It is also a pleasant duty to offer our hearty thanks to a number of ladies and gentlemen who have in various ways assisted the Hospital in a voluntary capacity.

## Statistics relating to the year ending 31st December, 1944

## IN-PATIENTS

TABLE 1 (a)

|                                                                                                   |      |
|---------------------------------------------------------------------------------------------------|------|
| 1. Total number of admissions (including infants born in hospital) — — — — —                      | 5118 |
| 2. Total number of women confined in Hospital — — — — —                                           | 874  |
| 3. Number of Live Births (including 16 sets of Twins) — — — — —                                   | 850  |
| 4. Number of Still Births — — — — —                                                               | 40   |
| 5. Number of Deaths among the newly-born (i.e. under four weeks of age) — — — — —                 | 24   |
| 6. Total number of Deaths among children under one year (including those given under 5) — — — — — | 96   |
| 7. Total number of Maternal Deaths among women admitted to Hospital for confinement — — — — —     | 1    |
| 8. Total number of Deaths — — — — —                                                               | 417  |
| 9. Total number of discharges (including infants born in Hospital) — — — — —                      | 4791 |
| 10. Duration of stay of patients, including (8) and (9) above :—                                  |      |
| (a) Under four weeks — — — — —                                                                    | 4197 |
| (b) Four weeks and under thirteen weeks — — — — —                                                 | 816  |
| (c) Thirteen weeks or more — — — — —                                                              | 195  |
| 11. Number of beds occupied (excluding cots in Maternity Wards):—                                 |      |
| (a) Average during the year — — — — —                                                             | 349  |
| (b) Highest, on 3/2/44 — — — — —                                                                  | 477  |
| (c) Lowest, on 6/8/44 — — — — —                                                                   | 255  |

TABLE 1 (b)

## Service Cases treated in hospital and not included in County numbers

|                                              |      |
|----------------------------------------------|------|
| Service cases in hospital 31/12/43 — — — — — | 90   |
| Admitted — — — — —                           | 1101 |
| Discharged and died — — — — —                | 1163 |
| Remaining in hospital 31/12/44 — — — — —     | 28   |
| <i>Air Raid Casualties—</i>                  |      |
| In hospital 31/12/43 — — — — —               | Nil  |
| Admitted — — — — —                           | 4    |
| Discharged — — — — —                         | 4    |
| Remaining in hospital 31/12/44 — — — — —     | Nil  |

TABLE 2

|                                                        | 1943 | 1944 |
|--------------------------------------------------------|------|------|
| Number of Admissions (including Births) — — — — —      | 5651 | 5118 |
| Number of Discharges — — — — —                         | 5095 | 4791 |
| Number of Deaths — — — — —                             | 509  | 417  |
| Number of Live Births — — — — —                        | 763  | 849  |
| Number of Still Births — — — — —                       | 41   | 40   |
| Number of Patients in Hospital 31st December — — — — — | 379  | 289  |

## DEATHS FOR YEAR ENDED 31st DECEMBER 1944

|                                                             |     |
|-------------------------------------------------------------|-----|
| Number of Deaths within 24 hours of admission — — — — —     | 59  |
| Number of Deaths of patients over 70 years of age — — — — — | 182 |

TABLE 3

CLASSIFICATION OF IN-PATIENTS WHO WERE DISCHARGED OR WHO DIED IN THE YEAR ENDING 31st DECEMBER, 1944

|                                                    |                                                                                                                  |    |    |    | Children under 16 |      | Men & Women.    |      |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----|----|----|-------------------|------|-----------------|------|
|                                                    |                                                                                                                  |    |    |    | Dis-<br>charged   | Died | Dis-<br>charged | Died |
| A.                                                 | Acute Infectious Disease                                                                                         | .. | .. | .. | 19                | —    | 15              | 2    |
| B.                                                 | Influenza                                                                                                        | .. | .. | .. | —                 | —    | 3               | 1    |
| C.                                                 | Tuberculosis                                                                                                     |    |    |    |                   |      |                 |      |
|                                                    | (1) Pulmonary                                                                                                    | .. | .. | .. | —                 | —    | 19              | 10   |
|                                                    | (2) Non-Pulmonary                                                                                                | .. | .. | .. | 11                | 8    | 13              | 6    |
| D.                                                 | Malignant Disease                                                                                                | .. | .. | .. | 2                 | —    | 100             | 80   |
| E.                                                 | Rheumatism.                                                                                                      |    |    |    |                   |      |                 |      |
|                                                    | (1) Acute Rheumatism (Rheumatic Fever) together with sub-acute Rheumatism and Chorea                             | .. | .. | .. | 7                 | —    | 3               | —    |
|                                                    | (2) Non-articular manifestations of so-called Rheumatism (Muscular Rheumatism, Fibrositis, Lumbago and Sciatica) | .. | .. | .. | 2                 | —    | 15              | —    |
|                                                    | (3) Chronic Arthritis                                                                                            | .. | .. | .. | —                 | —    | 22              | 3    |
| F.                                                 | Venereal Disease                                                                                                 | .. | .. | .. | 2                 | —    | 3               | —    |
| G.                                                 | Puerperal Pyrexia                                                                                                | .. | .. | .. | 1                 | —    | 11              | 3    |
| H.                                                 | Puerperal Fever                                                                                                  |    |    |    |                   |      |                 |      |
|                                                    | (1) Women confined in Hospital                                                                                   | .. |    |    | —                 | —    | —               | —    |
|                                                    | (2) Other cases                                                                                                  | .. | .. | .. | —                 | —    | —               | —    |
| I.                                                 | Other Diseases and accidents connected with Pregnancy and Child-Birth                                            | .. |    |    | 1                 | 6    | 269             | 3    |
| J.                                                 | Mental Diseases (1) Senile Dementia                                                                              | .. |    |    | —                 | —    | —               | —    |
|                                                    | (2) Other                                                                                                        | .. | .. | .. | —                 | —    | 26              | —    |
| K.                                                 | Senile Decay                                                                                                     | .. | .. | .. | —                 | —    | 1               | 7    |
| L.                                                 | Accidental Injury and Violence                                                                                   | .. | .. |    | 85                | 1    | 180             | 25   |
| <i>In respect of the cases not included above—</i> |                                                                                                                  |    |    |    |                   |      |                 |      |
| M.                                                 | Disease of the Nervous System and Sense Organs                                                                   | .. | .. | .. | 65                | 7    | 115             | 36   |
| N.                                                 | Disease of the Respiratory System                                                                                | .. | .. |    | 116               | 15   | 246             | 28   |
| O.                                                 | Disease of the Circulatory System                                                                                | .. | .. |    | 4                 | 6    | 142             | 67   |
| P.                                                 | Disease of the Digestive System                                                                                  | .. | .. |    | 310               | 12   | 582             | 31   |
| Q.                                                 | Disease of the Genito-urinary System                                                                             | .. | .. |    | 57                | 1    | 287             | 25   |
| R.                                                 | Disease of the Skin                                                                                              | .. | .. | .. | 77                | 1    | 69              | 1    |
| S.                                                 | Other Diseases                                                                                                   | .. | .. | .. | 85                | 8    | 197             | 14   |
| T.                                                 | Mothers and Infants discharged from Maternity Wards and not included in above figures                            | .. | .. | .. | 807               | 10   | 801             | —    |
| U.                                                 | Persons not falling under any of the above headings                                                              | .. | .. | .. | 13                | —    | 2               | —    |
| Totals                                             |                                                                                                                  |    |    |    | 1664              | 75   | 3125            | 342  |

TABLE 4

*X-Ray Department.*

|                      |   |   |   |   |   |   |            |
|----------------------|---|---|---|---|---|---|------------|
| Bones                | — | — | — | — | — | — | 1602       |
| Renals               | — | — | — | — | — | — | 372        |
| Chests               | — | — | — | — | — | — | 3006       |
| Gall Bladders        |   | — | — | — | — | — | 127        |
| Bariums              | — | — | — | — | — | — | 477        |
| Ante-natal Pregnancy |   |   | — | — | — | — | 182        |
|                      |   |   |   |   |   |   | <hr/> 5766 |

TABLE 5

*Out-Patients Department.*

|                                 |   |   |   |       |
|---------------------------------|---|---|---|-------|
| General (including X-Ray, etc.) | — | — | — | 4574  |
| Massage                         | — | — | — | 4324  |
| Ophthalmic                      | — | — | — | 534   |
| Orthopaedic                     | — | — | — | 1246  |
| Ear, Nose and Throat            | — | — | — | 640   |
| Artificial Pneumothorax         | — | — | — | 975   |
| Medical                         | — | — | — | 851   |
| Gynaecological and Post-Natal   | — | — | — | 166   |
|                                 |   |   |   | 13310 |

TABLE 6

## Pathological Department.

|                          |   |   |   |   |   |             |
|--------------------------|---|---|---|---|---|-------------|
| Steriliser Efficiency    | — | — | — | — | — | 16          |
| Diphtheria Swabs         | — | — | — | — | — | 6509        |
| Widal                    | — | — | — | — | — | 50          |
| Urine                    | — | — | — | — | — | 1475        |
| Pus, Sputa, etc.         | — | — | — | — | — | 1742        |
| Smears (G.C.)            | — | — | — | — | — | 235         |
| Blood Wassermann         | — | — | — | — | — | 704         |
| C.S.F. Wassermann        | — | — | — | — | — | 51          |
| Colloidal Gold           | — | — | — | — | — | 13          |
| Penicillin Sensitivity   | — | — | — | — | — | 79          |
| Biological Tests         | — | — | — | — | — | 56          |
| Blood Chemistry          | — | — | — | — | — | 578         |
| F.T.M.                   | — | — | — | — | — | 306         |
| Faeces Occult Blood      | — | — | — | — | — | 382         |
| Urea Concentration Tests | — | — | — | — | — | 40          |
| Blood Counts             | — | — | — | — | — | 1960        |
| „ „ Differential         | — | — | — | — | — | 542         |
| „ „ Films                | — | — | — | — | — | 1179        |
| Various                  | — | — | — | — | — | 446         |
| Sections                 | — | — | — | — | — | 145         |
|                          |   |   |   |   |   | <hr/> 16508 |

**TABLE 7**  
**MATERNITY DEPARTMENT**

*Ante-Natal Clinic.*

|                             |   |   |   |   |      |
|-----------------------------|---|---|---|---|------|
| Total number of patients    | — | — | — | — | 242  |
| „ „ visits                  | — | — | — | — | 1634 |
| Average attendance per week | — | — | — | — | 31   |
| „ „ „ patient               | — | — | — | — | 6·7  |

*Maternity Ward.*

|                            |   |   |   |   |     |
|----------------------------|---|---|---|---|-----|
| Total number of deliveries | — | — | — | — | 890 |
| „ „ primiparae             | — | — | — | — | 442 |
| „ „ live births            | — | — | — | — | 850 |
| „ „ still births           | — | — | — | — | 40  |

*Cause of death in still births—*

|                         |   |   |   | A.N.C. | Emergency |
|-------------------------|---|---|---|--------|-----------|
| Anencephalic            | — | — | — | 3      | 1         |
| Macerated Foetus        | — | — | — | 1      | 3         |
| Prematurity             | — | — | — | 1      | 3         |
| Disproportion           | — | — | — | 1      | 1         |
| Breech                  | — | — | — | 2      | 3         |
| Cord Anomalies          | — | — | — | 1      | —         |
| Ante-partum Haemorrhage | — | — | — | 3      | 5         |
| Hydrocephalus           | — | — | — | 3      | 2         |
| Eclampsia               | — | — | — | 1      | 4         |
| No known cause          | — | — | — | 1      | 1         |

Average duration of stay—15·2 days

|                                |   |   |     | A.N.C. | Emergency |
|--------------------------------|---|---|-----|--------|-----------|
| Instrumental deliveries        | — | — | 93  | 69     | 24        |
| Caesarean Section              | — | — | 36  | 29     | 7         |
| Breeches                       | — | — | 36  | 30     | 6         |
| Other Doctors' cases           | — | — | 22  | —      | —         |
| Perineal repairs               | — | — | 129 | —      | —         |
| Maternal Deaths                | — | — | 2   | —      | —         |
| Notified Puerperal Pyrexias    | — | — | 22  | —      | —         |
| Notified Ophthalmia Neonatorum | — | — | 7   | —      | —         |
| <i>Neonatal Deaths</i>         | — | — | 20  | —      | —         |
| Intracranial Haemorrhage       | — | — | 7   | —      | —         |
| Hydrocephalus                  | — | — | 6   | —      | —         |
| Spina Bifida                   | — | — | 2   | —      | —         |
| Prematurity                    | — | — | 5   | —      | —         |

TABLE 8

## CLASSIFICATION OF OPERATIONS UNDER ANAESTHESIA

*Abdominal.*

|                                      |   |   |   |   |   |   |     |
|--------------------------------------|---|---|---|---|---|---|-----|
| Gastrectomy                          | — | — | — | — | — | — | 15  |
| Gastroenterostomy                    | — | — | — | — | — | — | 4   |
| Gastrostomy                          | — | — | — | — | — | — | —   |
| Gastroscopy                          | — | — | — | — | — | — | —   |
| Rammstedt                            | — | — | — | — | — | — | 2   |
| Perforated peptic ulcer              | — | — | — | — | — | — | 15  |
| Paul Mikulicz                        | — | — | — | — | — | — | 6   |
| Resection of large intestine         | — | — | — | — | — | — | 9   |
| Anastomosis of intestine             | — | — | — | — | — | — | 3   |
| Enterostomy                          | — | — | — | — | — | — | 3   |
| Caecostomy and Colostomy             | — | — | — | — | — | — | 17  |
| Reduction of intussusception         | — | — | — | — | — | — | 3   |
| Closure of enterostomy of fistula    | — | — | — | — | — | — | 14  |
| Appendix operations                  | — | — | — | — | — | — | 193 |
| Excision of Rectum                   | — | — | — | — | — | — | 1   |
| Sigmoidoscopy                        | — | — | — | — | — | — | 16  |
| Haemorrhoidectomy                    | — | — | — | — | — | — | 11  |
| Other operations on Rectum           | — | — | — | — | — | — | 7   |
| Cholecystectomy                      | — | — | — | — | — | — | 18  |
| Other operations on biliary passages | — | — | — | — | — | — | 3   |
| Subphrenic abscess                   | — | — | — | — | — | — | 2   |
| Splenectomy                          | — | — | — | — | — | — | 2   |
| Hernia operations                    | — | — | — | — | — | — | 71  |

*Genito-Urinary.*

|                                           |   |   |   |   |   |   |    |
|-------------------------------------------|---|---|---|---|---|---|----|
| Nephrotomy                                | — | — | — | — | — | — | 2  |
| Nephrectomy                               | — | — | — | — | — | — | 9  |
| Ureterotomy                               | — | — | — | — | — | — | 4  |
| Cystostomy                                | — | — | — | — | — | — | 16 |
| Cystoscopy                                | — | — | — | — | — | — | 30 |
| Diathermy removal of papilloma of bladder | — | — | — | — | — | — | 5  |
| Operations on urethra                     | — | — | — | — | — | — | 49 |
| Circumcision                              | — | — | — | — | — | — | 36 |
| Excision of epididymis                    | — | — | — | — | — | — | 1  |
| Suprapubic prostatectomy                  | — | — | — | — | — | — | 14 |
| Endoscopic resection of prostate          | — | — | — | — | — | — | 6  |
| Others                                    | — | — | — | — | — | — | 8  |

*Gynaecological.*

|                                            |   |   |   |   |   |   |    |
|--------------------------------------------|---|---|---|---|---|---|----|
| Perineorrhaphy and other repair operations | — | — | — | — | — | — | 20 |
| Dilatation & curettage                     | — | — | — | — | — | — | —  |
| Myomectomy                                 | — | — | — | — | — | — | 3  |
| Hysterectomy                               | — | — | — | — | — | — | 9  |
| Evacuation of uterus                       | — | — | — | — | — | — | —  |
| Salpingectomy                              | — | — | — | — | — | — | 7  |
| Oophorectomy                               | — | — | — | — | — | — | 10 |
| Other gynaecological operations            | — | — | — | — | — | — | 39 |

*Ophthalmic.*

|                              |   |   |   |   |   |   |    |
|------------------------------|---|---|---|---|---|---|----|
| Enucleation of eyeball       | — | — | — | — | — | — | 1  |
| Cataract operations          | — | — | — | — | — | — | 9  |
| Operations on ocular muscles | — | — | — | — | — | — | 9  |
| Other ophthalmic operations  | — | — | — | — | — | — | 18 |

*Ear, Nose and Throat.*

|                                  |   |   |   |   |   |   |   |
|----------------------------------|---|---|---|---|---|---|---|
| Submucous resection nasal septum | — | — | — | — | — | — | 8 |
| Removal of nasal polypi          | — | — | — | — | — | — | 8 |

|                                                    |     |
|----------------------------------------------------|-----|
| Operations on accessory air sinuses                | 3   |
| Tonsillectomy and/or adenectomy                    | 149 |
| Oesophagoscopy                                     | 4   |
| Mastoidectomy                                      | 14  |
| Others                                             | 7   |
| <i>Orthopaedic and Accidents.</i>                  |     |
| Major amputations                                  | 6   |
| Minor amputations                                  | 8   |
| Operations for compound fracture                   | 3   |
| Operations for simple fracture                     | 9   |
| Removal of foreign bodies                          | 7   |
| Manipulation and/or application of plaster         | 61  |
| Débridement and/or wound excision                  | 7   |
| Operations for osteomyelitis                       | 7   |
| Bone grafting                                      | 1   |
| Arthrodesis of ankle                               | 1   |
| Kellar's operation                                 | 3   |
| Arthroplasty of hip                                | 1   |
| Operations on tendons                              | 5   |
| Others                                             | 29  |
| <i>Miscellaneous.</i>                              |     |
| Radical excision of breast                         | 6   |
| Thyroidectomy                                      | 7   |
| Thyroglossal fistula                               | 1   |
| Excision of cervical glands                        | 7   |
| Excision of tongue                                 | 3   |
| Excision of parotid tumour                         | 1   |
| Lumbar sympathectomy                               | 2   |
| Varicose veins                                     | 11  |
| Pilonidal cyst                                     | 2   |
| Biopsy                                             | 7   |
| Skin graft                                         | 10  |
| Removal of carbuncle                               | 2   |
| Insertion of radium                                | 7   |
| Drainage of abscesses                              | 115 |
| Curettage of sinuses                               | 14  |
| Miscellaneous minor operations                     | 33  |
| Ventriculogram                                     | 1   |
| Extraction of teeth                                | 3   |
| <i>Chest Unit Operations (to July 28th, 1944).</i> |     |
| Open drainage of pleural cavity                    | 32  |
| Closed drainage of pleural cavity                  | 3   |
| Aspiration of pleural effusion                     | 18  |
| Thoracoscopy                                       | 7   |
| Thoracoplasty                                      | 4   |
| Plastic operation for empyema                      | 2   |
| Revision of sinus                                  | 8   |
| Thoracotomy                                        | 11  |
| Lobectomy                                          | 15  |
| Pneumonectomy                                      | 2   |
| Bronchoscopy                                       | 93  |
| Removal of foreign bodies                          | 5   |
| For lung abscess                                   | 17  |
| Muscle flap for bronchial fistula                  | 2   |
| Mediastinotomy                                     | 1   |
| Phrenicectomy                                      | 8   |
| Splanchnectomy                                     | 2   |
| Minor operations                                   | 8   |

## REPORT BY DIETITIAN

During this year the Dietetic Department continued to cater for those patients who would benefit by a special diet, especially gastrics of all kinds, diabetics, nephritics, post-operative cases, overweight and underweight patients, etc.

The number of patients on special diets decreased during the summer, notably after the Huts had been closed, but increased again, as the analysis of our monthly numbers shows. Food supplies continued to be sufficient to make the diets palatable, but were not enough to make them really interesting and varied. There was nearly always a shortage of a variety of vegetables and of fruit, though the wonderful apple crop has been a great help. The tins in which diets are served are in need of replacement. Efforts are being made to procure some suitable containers before those being used completely disintegrate. To make the food appear tempting, attractive serving dishes and trays should be obtained as soon as peace permits.

The chief difficulty during the latter half of the year has been that of staff. When the Auxiliary Nurses left an Assistant Nurse had to return to the wards, and in November another resigned from the C.N.R. in order to take the post of Assistant Cook in the main Kitchen. She had been in this Department for two years and took an intelligent interest in diet Therapy, and was a most reliable and helpful assistant. Two others are now assisting in the Diet Kitchen, but the problem of staffing has continued to be difficult, thus preventing attendance at the Out-patients' Clinics, and interfering with visiting, but all the patients who had to continue with diet at home have been personally interviewed when the doctor in charge thought it necessary. It was, however, impossible to give sufficient time to interviewing in-patients without neglecting the preparation of the diets. A qualified assistant is essential to remedy these defects.

The Dietetic Department has many possibilities and gives scope for continued development. The Ministry of Health Inspector was impressed by the lay-out of the kitchens when she inspected the catering arrangements.

## STATISTICS OF DIETS, 1944-1945

|                  | <i>Daily Average</i> | <i>Total No. Diets</i> |
|------------------|----------------------|------------------------|
| February ... ..  | 86                   | 156                    |
| March ... ..     | 100                  | 173                    |
| April ... ..     | 89                   | 160                    |
| May ... ..       | 86                   | 170                    |
| June ... ..      | 82                   | 141                    |
| July ... ..      | 74                   | 116                    |
| August ... ..    | 57                   | 100                    |
| September ... .. | 57                   | 102                    |
| October ... ..   | 63                   | 111                    |
| November ... ..  | 69                   | 139                    |
| December ... ..  | 75                   | 131                    |
| January ... ..   | 65                   | 132                    |

## SPECIAL DIETS, 1944

| <i>Monthly Averages</i> |                |                |                                  |                        |                         |
|-------------------------|----------------|----------------|----------------------------------|------------------------|-------------------------|
| <i>Diabetic</i>         | <i>Gastric</i> | <i>Low Fat</i> | <i>Colostomy<br/>Non-residue</i> | <i>Low<br/>Protein</i> | <i>High<br/>Protein</i> |
| 11.8                    | 48.3           | 11.0           | 14.0                             | 31.4                   | 18.9                    |

## REPORT BY CONSULTANT SURGEON

The General Surgical work has again been heavy during the last twelve months. The preponderance of old people and of advanced disease has become increasingly evident since the departure of the service patients previously housed in the hutments. The loss of these extra beds has also been felt in another way, there being a conscious effort on all our parts to shorten the stay of patients as much as possible in order to make room for others. In general there is much to be said for a brisk turn-over, but in a hospital of this character it is undesirable that heed should have to be paid so constantly to maintaining a margin of empty beds.

Facilities for pathological laboratory work would be of real assistance in the surgical work of the hospital. Since the advent of penicillin, and greater awareness of the importance of cross-infection, the bacteriologist has assumed an important place by the bedside. The hour-to-hour administration of this precious substance is in the pathologist's hands, and we cannot much longer forego the services of a laboratory within the hospital. Possibly for the next decade, surgery and pathology will have to establish a closer relationship, and their ultimate liaison remains to be developed. The day

is certainly gone when we can despatch a specimen for examination and report, and then await the answer in the course of the post.

Very heavy demands continue to be made on the Residents and on the Senior Nursing Staff, who have given a year of hard work and devoted service under conditions which have always been a little difficult and rather trying. Our best thanks are due to them.

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## REPORT BY CONSULTANT PHYSICIAN

I have much pleasure in giving my contribution to the Annual Report, in my capacity of Visiting Physician.

The medical work of the hospital has continued unabated in spite of the many restrictions which have been enforced upon us owing to the present emergency.

The Medical Out-Patient Clinic at the hospital continues to grow and fulfils a very useful function in enabling patients to be seen and investigated without admission to hospital. I think there could be a further saving of hospital beds if radiological examinations of the gastro-intestinal tract, gall bladder and genito-urinary tract could also be undertaken from the Out-Patient Clinic.

The extended use of penicillin has proved to be a great boon in the Medical Wards, but has imposed an additional burden on the Resident Medical Staff. If further pathological facilities could be extended to the hospital it would be very helpful. The whole-time services of a pathological technician at the Clatterbridge County General Hospital has been of enormous assistance in the Medical Wards. Investigations can now be carried out rapidly and the clinicians have the opportunity of visiting the Laboratory and obtaining co-operation in person. If we could obtain the whole-time services of a Pathologist it would undoubtedly be of much greater assistance.

The drugs of the Sulphonamide group continue to be used, and both their sphere of usefulness and their dangers are being appreciated.

I should like to express my indebtedness to the Hospital Staff, Medical, Nursing and Lay, for their wholehearted co-operation. I find it a great pleasure to work at the Hospital.

## REPORT BY EAR, NOSE AND THROAT SURGEON

An ear, nose and throat department at its worst has a reputation for being a department attended by vast numbers of running ears and noses which never get better, and as regards in-patients, it is often looked upon as a place where tonsils are taken out and little important work done.

The total of the Friday clinics was 332—made up of 150 new and 182 old patients; the ratio of old to new is, therefore, much less than two to one. We have, in point of fact, very few chronic incurables. The figure of 150 new patients, when compared with the 165 letters to doctors in the same period, shows that the neighbourhood is making good use of us and getting full consultative service.

Over the same period the operations done have been:—

|                                          |    |
|------------------------------------------|----|
| Child tonsils ... ..                     | 23 |
| Adult tonsils (dissection) ... ..        | 7  |
| Other operations on nose, throat and ear | 37 |
|                                          | —  |
|                                          | 67 |
|                                          | —  |

This again is, I think, a satisfactory figure, and shows that time is not being spent on minor work to the exclusion of more important surgery. It has been a bad year as regards shortage of beds, and I hope we shall have further increase of the major surgical work when peace returns. With fuller transport facilities, we certainly shall.

Added to this work is the Clinic held on Thursday, with a total attendance this year of 308 and 195 new patients. This figure shows that the Clinic is not purely for tonsil removal, but that consultation and following up is a feature. Some 113 of these visits were evidently following up on first consultation and giving consideration to the cases. Of the 195 new cases, tonsillectomy was carried out in only 120, showing that in approximately 40 per cent. operation was avoided or postponed for further consideration.

This report looks self-satisfied and complacent, but there are points where we have room for improvement. I see children who would benefit by a stay in hospital of one or two months as part of treatment. At present the number I can deal with is very limited, and I should like to see this practice extended. At the same time I should like to stress what I remarked on last year, the efficiency of the special ward staff and equipment, and to emphasise the importance to the quality of work, and the saving of bed time to the

hospital, which I attach to this. I think it very important that, as much as possible, patients of the department should be nursed in our own specially equipped and staffed ward and not elsewhere. In a general hospital of this type, I think there is no danger of over-specialisation.

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## REPORT BY CONSULTANT TUBERCULOSIS PHYSICIAN

The past year's work in connection with the prevention of Pulmonary Tuberculosis again emphasises the important place of a General Hospital in relation to a Tuberculosis Scheme.

The primary function of the Hospital as a centre for the thorough investigation and diagnosis of the "observation" case, continues to be maintained at a high level. Unfortunately, essential beds for this type of case are still being "blocked" by the number of definitely tuberculous cases, mostly advanced disease, which accumulate owing to the shortage of beds in special Institutions. It may be noted that 36 per cent. of these cases died in Hospitals in the course of the year, owing to the hopeless condition on admission.

An efficient X-Ray Department is as essential to a Physician in his combat against Tuberculosis, as the Airfield Ground Staff is to the Fighter Pilot, and I have much pleasure in recording my appreciation of the whole-hearted co-operation of the staff of the Hospital X-Ray Department. The production of high grade X-Ray films is of paramount importance for accurate diagnosis and assessment of cases.

Out of all the tuberculous cases admitted to the Hospital, only six were suitable for Pneumo-Thorax treatment, and on these patients primary inductions were carried out and re-fills given pending their transfer to Sanatorium. In this way it has been possible to check the disease so that these patients may enjoy the wider benefits of residence in a Sanatorium, when beds become available.

The number of patients attending the Artificial Pneumo-Thorax Clinic and Out-Patient Department shows an increase, and two were admitted for adhesion section, thus saving beds in a Sanatorium. In this connection, the recent purchase of a Thoracoscope by the Hospital Committee will, I am sure, be well justified.

## REPORT OF THE MEDICAL SUPERINTENDENT OF WEST PARK COUNTY HOSPITAL, MACCLESFIELD

It is almost five years since the West Park Hospital was opened, following the appropriation of the former Public Assistance Institution in June, 1940. It was at first devoted entirely to the needs of the Emergency Medical Service, but in 1941, owing to lack of Maternity accommodation in the district, six beds were set aside for this purpose; more beds have been opened from time to time and new Clinics established, the result being that the work done in the Public Health section of the hospital is much more than that in the E.M.S. Wards, which are mainly devoted to chronic cases. In the same way comparable changes have occurred in regard to all grades of staff, e.g., all the medical staff, including consultants, are now appointed by the County Council. When the hospital was first opened, the nursing staff of 34 was more than doubled by the arrival of members of the Civil Nursing Reserve. By the end of 1944 this position had been reversed, and the respective proportions were as three to one. These figures refer to the establishment and do not include vacancies. It must be emphasised that the greatest difficulty throughout the year has been shortage of nursing staff and reference to this problem is included in another section of the report.

### PATIENTS

#### General

In anticipation of D-Day, the Government decided that the casualties should be treated in hospitals which were considered suitable for the reception of convoys, and it was agreed that the nursing staffs should be increased by transfer from those hospitals not designated for the care of the wounded. In order that this might be done the Ministry of Health requested all hospitals to restrict admissions to urgent cases, and to close wards wherever possible. On June 7th, 1944, twelve nurses were sent to Parkside Emergency Hospital. For some time the wards had been understaffed and, as a result of this transfer, it became necessary to close four wards, thus reducing by 52 the beds available for Public Health cases. The beds in the Maternity Ward were unaffected. The transferred nurses were members of the Civil Nursing Reserve, none of them have returned to this hospital and it is not expected that they will come back. Although the staff was depleted in this way three wards have been re-opened to meet the demand for admissions.

It was expected that the figures for the year would reveal an all-round diminution in the work of the hospital, and

whilst this is the case for some departments, others show a slight increase. For example, the total number of admissions, including births, was increased by 76 as compared with the previous year. Residents in Macclesfield accounted for 534 out of 1,766 admissions. The remainder came from a wide area of the county, Sandbach, Wilmslow and Congleton being the leading places. As the hospital has no ambulance, patients make use of the facilities available in their respective districts—it is believed that no difficulties have arisen in this connection. However, some of the patients attending clinics have to undertake tedious and inconvenient journeys and the same trouble applies to visitors. As far as possible out-patients are given appointments in order to minimise the difficulties of the journey. Valuable assistance in this connection has been given by the Volunteer Car Pool.

During the year an agreement was reached with the Workers' Infirmary Fund (Macclesfield General Infirmary) in respect of in-patients. The hospital now has an agreement with all contributory schemes which operate within this part of the county, but provision has not been made for out-patient treatment.

### **Maternity**

The number of admissions was 576. There was no maternal death, and the figures for stillbirths and neonatal deaths were satisfactory. Nevertheless, it became evident that more patients were being admitted than could be dealt with properly. It was decided to restrict bookings to 35 per month. The ward was re-arranged, a large nursery being provided for the infants, and a disused bathroom converted into a milk kitchen, with steriliser, refrigerator, etc. As a result, the number of maternity beds has been temporarily reduced from 27 to 21.

The Maternity and Child Welfare Committee of the Borough of Macclesfield was responsible for 194 patients. The Ante-Natal Clinics were well attended and 3,346 visits were paid, an increase of 114.

### **Tonsils and Adenoids**

These cases are dealt with by arrangement with the County Education Committee. The children are admitted in batches of 12, and normally are discharged on the third day after operation, which is carried out by the Consulting Aural Surgeon, with the assistance of a visiting Anaesthetist. The number of cases dealt with during the year was 287, which is more than double the figure for 1943. During the early part of the year it was possible to deal with cases within

6 to 8 weeks of a request being received for treatment. The closing of certain wards, however, made this impracticable and there has since been a waiting list.

### **E.M.S.**

The average number of E.M.S. cases resident throughout the year was 71, the great majority being cases of chronic sickness or infirmity, many of whom had been admitted in 1940. Owing to enemy action in the south a further small convoy was received in September.

### **Chronic Sick**

As in previous years, many requests were received for the admission of chronic cases. In the last report it was stated that an arrangement had been reached whereby 30 beds were set aside for the accommodation of such cases admitted by arrangement with the Public Assistance Committee. This scheme was suspended after D-Day but towards the end of the year a number of chronic patients were admitted as Public Health cases. In all there are 31 chronic cases from the County who are treated in the same wards as the E.M.S. cases. The men are in K.3 and K.4 Wards, both of which have been recently re-decorated, and the accommodation is considered suitable. The same cannot be said for the women, who are in D and H Wards, which were formerly the House blocks of the West Park Institution. No other accommodation is available, as all other wards are required for the use of acute cases.

Towards the end of the year, it was announced that the Council had purchased Sutton Oaks, a mansion on the outskirts of Macclesfield, to be used for chronic sick. It is hoped that this will help to relieve a situation which is unsatisfactory to all concerned.

### **Dietary**

A Dietary Sub-Committee was set up to consider means of improving the Dietary for both patients and staff. It was decided to create the position of Food Supervisor, the person appointed to be directly responsible for the cooking of all meals and the preparation of special diets. It was anticipated that there would be difficulty in filling the post, and this proved to be the case, as a suitable person had not been found by the end of the year. Other measures included the improvement of kitchen equipment and the provision of gas cookers, etc., on the wards to improve the facilities for serving meals.

## Voluntary Help

In the first Annual Report a reference was made to a lending library established by the British Red Cross. Librarians attend the hospital every Friday and visit each ward, except the Maternity. It was decided by the Committee that a small sum of money should be set aside each week in order to purchase books and periodicals. In addition to the Librarians there are a number of voluntary workers who visit the chronic wards each week throughout the year; one of them attends three times weekly to provide tea for patients awaiting examination at the Ante-Natal Clinic, a service which is very much appreciated.

The Anglican Chaplain has continued to show cinematograph films in most of the wards during the winter months. The exhibitions are welcomed by all the patients, especially those in the chronic wards.

## BUILDINGS

No major scheme of development has been possible, but work has continued on the renovating and re-decorating of the wards. To expedite this, sanction was given to the engagement of a Painters' Labourer, in addition to the two Painters. The work of re-decorating the various Wards and Departments, begun in 1941, has been completed except for the former House blocks. Reference has already been made to these wards in connection with the Chronic Sick. It appears that their use will be required for some time to come, and schemes have been prepared for their re-decorating and improvements as far as is possible.

## Nurses' Home

In the Report for 1941, reference was made to the inadequacy of the Nurses' Home. Since that date West Bank House has been used for this purpose and Park Farm House is being prepared to take six nurses. It was reported during the year that, having regard to the increase in resident staff, accommodation was insufficient and a plan has been drawn up to construct a hut to accommodate twenty nurses.

## Offices

Approval has been given to a plan to improve the General Offices, one room of which was formerly a Dayroom in the Institution. The chief drawback is the insufficient natural lighting and it is expected that this will be improved by the new plan. Part of this work has been completed.

## Farm and Gardens

Consideration was given to the desirability of maintaining a farm in close proximity to the wards of a General Hospital. It was agreed that the presence of animals grazing within a certain distance of the wards was undesirable and eventually it was decided to close the Farm. The farm lands have been let for cultivation and grazing, provision having been made to exclude the grazing of cattle within the vicinity of the hospital. Park Farm House has not been let and will be used for accommodating nurses.

Attention has also been paid to the cultivation of the gardens and restriction placed upon the use of animal manure.

## STAFF

### Medical

The Medical Superintendent has had the help of two resident Assistant Medical Officers throughout the year. The appointment of Dr. S. F. Clegg as Visiting Medical Officer was changed, authority being given to call him in when required, the remuneration to be on a sessional basis. Consultants in the various branches of medicine and surgery have attended throughout the year.

### Nursing Staff

As in previous years the nursing staff consists of those appointed by the County Council, together with members of the Civil Nursing Reserve. When the hospital was first opened the latter were more numerous than the former, but in the course of time the position has changed. The following table gives the number of nurses employed on December 31st, 1944, and indicates the vacancies and those absent sick or on leave:—

### CHESHIRE COUNTY COUNCIL

|                | <i>Estab-<br/>lishment</i> | <i>Vacancies</i> | <i>Absent sick<br/>or on leave</i> | <i>Actual<br/>Staff<br/>available</i> |
|----------------|----------------------------|------------------|------------------------------------|---------------------------------------|
| Administrative | 3                          | —                | —                                  | 3                                     |
| Trained Staff  | 18                         | 5                | —                                  | 13                                    |
| Pupil Midwives | 4                          | 3                | —                                  | 1                                     |
| Student Nurses | 37                         | 5                | 3                                  | 29                                    |
| Male Orderlies | 2                          | —                | 1                                  | 1                                     |
| Asst. Nurses   | 1                          | —                | —                                  | 1                                     |
|                | —                          | —                | —                                  | —                                     |
|                | 65                         | 13               | 4                                  | 48                                    |
|                | —                          | —                | —                                  | —                                     |

## CIVIL NURSING RESERVE

|                        |    |                    |
|------------------------|----|--------------------|
|                        |    | <i>Absent sick</i> |
| Trained Nurses         | 2  | 1                  |
| Nursing<br>Auxiliaries | 20 |                    |

There is no establishment of C.N.R. Staff, the numbers being made up by the Sector Matron in accordance with a ratio applicable to all hospitals. It is expected that there will be a further diminution in the numbers of the Civil Nursing Reserve in the near future, and replacements will be required. These nurses were originally billeted in the district but it is becoming increasingly difficult for them to obtain lodgings and the nurses who replace them will require room in the hospital. It is expected that the proposed new hut will ease the situation.

The provision of an adequate number of nurses on the various wards has given rise to great anxiety throughout the year. It is appreciated that all hospitals have to face this problem, but there are two factors in West Park which give rise to special difficulties. Firstly, the administration is made more difficult, owing to the disposition and design of the wards, to which reference has been made in previous reports. Secondly, there is the fact that the hospital is an Affiliated Training School. As mentioned previously, this means that on completing two years' service at West Park and passing the Preliminary State Examination, nurses are transferred to Clatterbridge Hospital to complete their training, which takes two more years. Consequently the hospital is deprived of the services of the nurses at a time when they could be of great value.

In the last report mention was made of an unsuccessful application to the General Nursing Council for recognition as a complete training school. Suggestions made by the Council have been adopted to some extent and it is hoped that a further application may be made in the near future.

### Examination Results

#### *Preliminary State Examination—Parts 1 and 2.*

April, 1944—1 entered, 1 successful.

December, 1944—7 entered, 7 successful.

#### *Central Midwives Board—Part 2.*

8 entered, 8 passed.

With one exception all these candidates were sitting for the first time.

## Domestic

There has been difficulty in obtaining a sufficient number of daily workers and it has been noticed that their attendance has been even more irregular than during the previous year. The absence of the cleaners is felt chiefly at the week-ends, and it has not been easy to maintain a proper standard of cleanliness in the Hospital.

In conclusion, it is a pleasure to record the willing service and co-operation which has been given by all members of the staff.

## Statistics.

### GENERAL

| Patients in Hospital—              | P.H. | E.M.S. | Total |
|------------------------------------|------|--------|-------|
| 31st December, 1943 ... ..         | 134  | 68     | 202   |
| 31st December, 1944 ... ..         | 121  | 83     | 204   |
| Admissions during year 1944 ... .. | 1659 | 107    | 1766  |
| Discharges during year 1944 ... .. | 2040 | 81     | 2121  |
| Births during year 1944 ... ..     | 518  | 2      | 520   |
| Operations during year 1944 ... .. | 615  | 8      | 623   |
| Deaths during year 1944 ... ..     | 150  | 13     | 163   |

### Average duration of stay—

|                                  |             |
|----------------------------------|-------------|
| County Patients (Acute) ... ..   | 18.9 days.  |
| County Patients (Chronic) ... .. | 216.4 days. |
| E.M.S. Patients ... ..           | 238.5 days. |

### Average number of beds occupied throughout the year—

|                    |
|--------------------|
| Public Health—130. |
| E.M.S.—71.         |

### MATERNITY

|                                                      |      |
|------------------------------------------------------|------|
| Number of admissions ... ..                          | 576  |
| Deliveries ... ..                                    | 520  |
| Emergencies ... ..                                   | 41   |
| Instrumental Deliveries ... ..                       | 44   |
| Breech Deliveries ... ..                             | 19   |
| Caesarean Sections ... ..                            | 5    |
| Toxaemia of Pregnancy ... ..                         | 31   |
| Eclampsias ... ..                                    | 2    |
| Stillbirths ... ..                                   | 17   |
| Neonatal Deaths ... ..                               | 14   |
| Number of Mothers who attended Ante-Natal Clinic ... | 479  |
| Number of Attendances ... ..                         | 3346 |

## X-RAY DEPARTMENT

|                               |      |
|-------------------------------|------|
| Number of examinations ... .. | 1248 |
| Number of radiographs ... ..  | 3055 |

In addition the Radiographers visited Parkside Hospital to take 630 films.

## PHYSIOTHERAPY DEPARTMENT

|                  | Massage | Electrical | Exercises | Total |
|------------------|---------|------------|-----------|-------|
| Public Health—   |         |            |           |       |
| In-Patients ...  | 768     | 711        | 389       | 1868  |
| Out-Patients ... | 444     | 537        | 154       | 1135  |
| E.M.S.—          |         |            |           |       |
| In-Patients ...  | 135     | 156        | 131       | 422   |
| Out-Patients ... | 1       | 3          | 5         | 9     |
|                  | <hr/>   | <hr/>      | <hr/>     | <hr/> |
| Total ...        | 1348    | 1407       | 679       | 3434  |
|                  | <hr/>   | <hr/>      | <hr/>     | <hr/> |

In addition daily exercises were conducted in the Maternity Ward throughout the year.

## PATHOLOGICAL DEPARTMENT

|                        |       |
|------------------------|-------|
| Bacteriological ... .. | 1077  |
| Haematology ... ..     | 761   |
| Histology ... ..       | 226   |
| Other tests ... ..     | 31    |
| Autopsies ... ..       | 58    |
|                        | <hr/> |
| Total ...              | 2153  |
|                        | <hr/> |

## REPORT OF THE MEDICAL SUPERINTENDENT OF THE MARY DENDY HOMES, ALDERLEY EDGE

### Admissions

There were, on the 31st December, 1944, 281 males and 142 females—making a total of 423 patients—resident in the Homes.

During the year thirty boys and eleven girls came into the Homes as new admissions. Six male and five female patients were admitted under the provisions of the Mental Deficiency Acts. As these latter patients were already resident their discharge and re-admission were automatic.

The mental state on admission of the fifty-two patients was as follows:—

|                      | M. | F. | Total |
|----------------------|----|----|-------|
| Imbecile ... ..      | 6  | 1  | 7     |
| Feeble-minded ... .. | 30 | 15 | 45    |
| Totals               | 36 | 16 | 52    |

### Discharges

Fourteen males and five females were removed from the Homes during the year. Of the male patients thirteen were removed to the care of relatives or friends and one was transferred to a Mental Hospital. In addition two men who absconded several years ago were discharged by 'Operation of Law.' Two men who had been out on licence for some time were discharged by order of the Board of Control, and two youths who absconded whilst on licence were discharged by 'Operation of Law.' The five female patients were removed to the care of relatives or friends. One woman absconded and she is still absent from the Homes. At the end of December, 1944, nine male and six female patients were out on licence.

### Deaths

Five deaths have to be recorded (three males, one from Peritonitis, one from Toxic Myocarditis, one from Status Epilepticus, and two females, both from Pulmonary Tuberculosis).

This gives on the resident figure a death rate of 1.2 per cent.

### Age Classification

A classified list of the ages of resident patients is shown in the following table:—

|                |          | Male. | Female. | Total. |
|----------------|----------|-------|---------|--------|
| Under 16 years | ... ..   | 83    | 31      | 114    |
| 16—20          | „ ... .. | 36    | 17      | 53     |
| 21—29          | „ ... .. | 74    | 30      | 104    |
| 30—40          | „ ... .. | 31    | 26      | 57     |
| Over 40        | „ ... .. | 57    | 38      | 95     |
| Totals         |          | 281   | 142     | 423    |

### General Health

Taken over the 12 months the general health of the patients has been fairly good.

There have been a few cases of mild Chicken-pox amongst the school children, and at present there is an outbreak of measles—4 female adults, 6 girls and 1 boy.

Some five cases of scabies have occurred during the year, some of which were particularly resistant to treatment, but at the present moment all these cases have cleared up satisfactorily.

Impetigo was brought into the Homes by a newly admitted patient and he infected three other cases, two of which were particularly resistant to treatment.

One adult and two schoolboys suffered from Appendicitis—all of them received treatment at West Park Hospital. One schoolboy died from gangrenous appendicitis.

Respiratory diseases of note were one broncho-pneumonia and one lobar pneumonia, both of which cleared up well with Sulphonamide treatment.

One low-grade patient, however, developed pneumonia followed by a lung abscess and empyema. This proved fatal.

Two cases of Pulmonary Tuberculosis, both of which were adult women, after a prolonged illness lasting 12 months proved fatal.

One male patient is at present still receiving treatment for tuberculosis of the kidneys and his prognosis is poor.

One dysentery case occurred in a schoolgirl, but the infection was stopped from spreading.

One serious accident, namely injury to the thumb, occurred with an adult male patient whilst working out.

Amongst the staff there has only been one serious case of illness, namely Pulmonary Tuberculosis accompanied by Pleurisy. This occurred with a Student Nurse.

A fair amount of minor illnesses occurred amongst nurses, chiefly from septic throats and severe colds. The average period of incapacity from work amounted to 3 to 4 days at a time.

The assistant Joiner suffered from acute appendicitis and was off duty some considerable time.

The senior Joiner received injuries in a bicycle accident which also incapacitated him for some time.

Mr. F. Brandreth, the second gardener, was killed in a cycle accident whilst off duty.

### **Patients**

During the 12 months there has continued to be an increase in weight amongst the patients, varying from a few pounds to as much as a stone and a half. It has been particularly noticeable that there is often a marked gain in weight when children are admitted to the homes.

The athletic capabilities of the patients have also improved greatly. Their speed at running, and their stamina at games and at physical training, have shown marked improvement.

### **Staff**

The staff position continues to fluctuate. One certificated nurse, 4 assistant nurses and 8 student nurses left. One certificated nurse, 23 student nurses and 2 male attendants joined.

There are still, however, 10 vacant positions, 8 of which are due to be filled by night-nurses. These nurses at first were difficult to obtain, owing to the general shortage of candidates. Now, however, there is a small waiting-list of student nurses ready to come into the Homes, but these cannot be taken on until the new night-nurses' accommodation is completed.

It has been found that even with the present staff there is still a shortage of nurses for the many duties throughout the Homes. The scattering of the Houses causes considerable loss of time in travelling, and attendance at lectures also cuts down the number on duty in the wards.

On careful consideration, it seems that a 25 per cent. increase on the present establishment of nurses will be required when the Homes are running with full staff, so as to allow the necessary attendance at lectures since the Homes have been recognised as a training college.

To date 4 nurses have entered for the preliminary examination of the R.M.P.A. and 3 have passed.

Three nurses have entered for the final examination of the R.M.P.A. and all have passed.

Some 16 nurses are due to sit for the preliminary examination of the R.M.P.A. in May this year.

As soon as the opportunity affords itself, it is proposed to get the Homes recognised as a training school by the General Nursing Council so that both the R.M.P.A. and G.N.C. certificates can be obtained at the Homes.

One electrician, one part-time cook, and one part-time sewing-maid have also taken employment in the Homes.

The standard of medical nursing throughout the Homes has kept at a very high level during the year. Reporting of cases has been speedy and treatment has been carried out most efficiently.

### Activities

Throughout the year dances have been held each fortnight for the adult patients, and during the months of October, November, December and January, parties have been held in which both staff and high-grade patients have taken part. These mixed parties have been a great success and have led to greater understanding between staff and patients.

Badminton and netball have been regularly played by staff and patients. Concerts have been provided by staff and patients at Noah's Ark House, Lane Scott House, and Manor House, and at present selected patients and staff are rehearsing for the annual major concert of the Homes.

Mr. Whitwell continues his regular physical training of adult male patients. This training has been greatly helped by apparatus which has been purchased during the year.

The Annual Sports Meeting was held as usual.

Schoolboys and adult males have had regular boxing classes and during the year it has been noticeable how much the skill and sportmanship of these contestants has improved.

Much pleasure has been given to the patients by the attendance of various members of the Committee on several of these occasions.

Football continues to be played regularly by the adult male patients. The standard of play is remarkably high, and on one occasion they defeated a visiting team which had

played at least 12 games before without being beaten. It is proposed to get regular fixtures for the football team for next Winter so that they can have both 'at home' and 'away' games in the district.

The Scouts, numbering 26, continue to do well under Mr. Smith.

Throughout the year parties of patients have been taken to the Cinema and Belle Vue, and numbers of children and adults have visited the Pantomimes. Large numbers of patients attended the cinemas in Alderley Edge and Wilmslow weekly. In some cases they have been accompanied by members of the staff, and in other cases groups have been led by senior working patients who have taken responsibility for their conduct on such visits. This scheme has worked extremely well, and to date there has been no report of misdemeanour of any kind or of failure to report back to the Homes promptly after seeing the entertainment.

The need for a cinema in the Homes, however, is still urgent. Although the better patients are able to go to Alderley Edge and Wilmslow the lower grade patients and those in poor health cannot enjoy this facility.

The Sunday Services have been held throughout the year. They have been somewhat broken, however, by the sad death of the Rev. C. Welland, and by the departure from the district of the Nonconformist Chaplain, the Rev. J. R. Miller. During the past few months the general service has been conducted by the Rev. H. Thompson, the present Nonconformist Chaplain. However, a new Rector has been appointed to Nether Alderley Church and it is expected he will take up office in the Homes.

Miss Rhodcs—the Sunday School Teacher—having resigned, the younger members of the Homes are now included in the Church Service.

### **The Farm**

The farm has had a fairly good year, except that the latter end of harvesting was held up owing to bad weather. Ploughing was also held up by weather conditions. The value of milk, eggs and potatoes supplied to the Homes from 1st January, 1944, was £2,644. 11s. 4d. The farm produce sold amounted to £2,443. 12s. 3d.

### **The Gardens**

The value of garden produce supplied to the Homes from 1st January, 1944 to 31st December, 1944, was £1,623. 19s. 6d. The garden produce sold (surplus) was £132. 9s. 8d.

## Bostock Barns Farm

This farm had a somewhat 'up and down' year. Structural alterations have taken place, new pedigree T.T. cattle have been purchased and much work has been done on the land to improve its fertility and to give adequate drainage.

A good supply of T.T. milk has been maintained throughout the year. The children have received one pint of this daily for drinking, and whenever surplus has occurred it has been sent to those Homes where enfeebled patients have been fed on extra milk.

The licensed patients on the whole have done well. One youth has shown proficiency at tractor work and general handling of machinery of modern farming. Another youth has shown himself to be, taking his mental ability into consideration, a good stockman, whilst the third youth, somewhat more erratic in temperament, is, however, proving a good teamsman and has carried out some excellent general work on the farm.

All these patients are due to leave this farm in June, 1945, and there seems to be no doubt that they have become much more self-reliant and self-supporting as a result of their training.

## Special School

During the year the School has had an average daily attendance of 104 patients.

Miss Kiddle continues to give wise and enthusiastic guidance, and the children are well-grouped and the individual attention is continued.

The standard of education has definitely improved and so has the general knowledge of pupils.

Physical training continues to play a large part in the teaching programme and this wise measure has proved itself repeatedly. The physical health of the children after admission improves by leaps and bounds, and their mental response also quickens.

Many children who showed poor sense of balance, lack of initiative, and stubbornness have improved beyond measure, and their organised games and gymnastic displays show a high standard of efficiency.

In July, 1944, the School held its Sports, and good performances were put up by both boys and girls. The House championship was won by Alfred House, and a display of

dancing and physical training was also given by boys and girls at the conclusion of the Sports.

During the past month Miss Kiddle has been running Recreation hours for school children on two nights per week. During this period they make models or play indoor games. These hours have been a great success and are much appreciated by the children.

### **Night School**

Mrs. Robinson continues to take night-school, and 30 adult boys and 20 adult girls are attending. Good progress is being observed, and this is noticeable in the annual mental examination of patients, where questions of a general nature—which 12 months ago defeated them—they can now answer quickly and correctly.

Many of the patients who are attending night-school now realise the benefit of these classes and have expressed their appreciation of being able to get another chance to learn school work which they frankly admit they often neglected in earlier years.

### **The Laundry**

The number of patients employed in the Laundry is now 22. The Laundry has shown some improvement during the past year but is still not up to the standard required.

New machinery is on order and when this is delivered it is hoped there will be considerable improvement.

The women patients in the Laundry continue to be difficult. Many of these are not really high-grade patients.

### **Clothing**

With regard to the clothing of patients, the position continues to improve.

The ready-made frocks and coats for girls have added much to their appearance, and greater neatness and personal attention is being insisted upon.

Nurses' uniforms are now being dealt with in the Homes with the result that the supply and demand position has been alleviated and greater economy in cost has been effected.

### **Bed-Repairing and Maintenance**

One patient has been responsible during the past 12 months for the care and maintenance of the beds in the Institution—both staff and patients. During this period he has

inspected all beds every 14 days and has kept an adequate supply of beds in circulation. He has repaired any damage and has done painting and servicing where necessary.

### Tradesmen

The electrician, with one patient—during the 6 months employed here—has overhauled the electrical wiring in the Homes, has replaced faulty wiring throughout the Homes and has altered the position of lamps to give better illumination. A careful check has been kept on the current consumption and lower power bulbs placed wherever possible.

The painter—with two patients—has completely re-decorated the Recreation Hall, repairing all cracked plaster, etc., at the same time. In Wyatt House two dormitories, two dining rooms, two staircases, staff sitting-room and the conservatory have been re-decorated. One sick-room, and the staff bedrooms in the attic, have also been re-decorated. Work has also been carried out in Ivy House, the Hospital, Marion Brooks House and Carey-Bowden House, and touching-up has been done in Crossley House, Lees House and Heywood House. In the Staff houses, the Park Cottage has been re-decorated and touching-up has been carried out in the cottages tenanted by Mr. Lomas and by the Medical Superintendent.

During the 12 months the two Institution joiners chiefly carried out maintenance work. Alterations were effected at the Nurses' Home, in the Stores and at Wyatt House. New tables were also made for the workshops and the laundry. Part of the shippens at West Park Hospital, Macclesfield, were demolished and are now at Bostock Barns, and considerable repairs were carried out to doors and windows at this farm.

In the Tailor's Shop the following work has been done during the past 12 months:—429 garments—including overcoats, shirts and gymnastic wear, etc., have been made with an approximate value of £231. 11s. 5d. 3256 articles—including clothing and upholstery—have been repaired, with an approximate value of £162. 16s. 0d.

In the Cobbling Shop the following work has been carried out during the past 12 months:—

|                                               | £      | s. | d. |
|-----------------------------------------------|--------|----|----|
| Institution repairs, patients (8219) ... ..   | 1,447  | 9  | 0  |
| Institution repairs, staff (106) ... ..       | 21     | 4  | 0  |
| New work supplied to Homes (462) ... ..       | 326    | 14 | 1  |
| Repairs for outside Institutions (608) ... .. | 129    | 1  | 0  |
|                                               | <hr/>  |    |    |
|                                               | £1,924 | 8  | 1  |
|                                               | <hr/>  |    |    |

## Workshops

During the past year 2,405 new brushes have been made and 1,012 brushes have been repaired.

In the Handicraft shop 691 miscellaneous toys, etc., have been made.

|                                           | £                    | s. | d. |
|-------------------------------------------|----------------------|----|----|
| Value of Handicraft goods for Institution | 14                   | 14 | 0  |
| Value of Handicraft goods sold ... ..     | 151                  | 9  | 2  |
| Contracts for scrubbing brushes ... ..    | 67                   | 2  | 0  |
| Sale of brushes ... ..                    | 95                   | 8  | 1  |
| New brushes for Institution ... ..        | 34                   | 10 | 5  |
| Repairs to brushes ... ..                 | 66                   | 19 | 0  |
|                                           | <hr/> £430 2 8 <hr/> |    |    |

Since October, 1944, when the woodwork department opened, two work-benches and 1 saw-bench have been made. Thirty-five chairs have been repaired and other miscellaneous oddments have been done. Several articles have been made from scrap wood, such as toy motors, shelves, notice boards, desks, steps, etc. The total amount of sales from the Woodwork shop amount to £10. 7s. 0d.

The Institutional Plumber, with the assistance of one patient, has carried out routine maintenance work in the Homes. He has also assisted in the fitting-up of water-bowls, etc., at Bostock Barns Farm.

The Bricksetter, with two patients, has been occupied throughout the 12 months with maintenance work—both in the Homes and at Bostock Barns Farm.

## Statistics

The following statistics give an idea of the occupation and pursuits of the patients in the Institution:—

### *Females.*

|                                                  |    |
|--------------------------------------------------|----|
| Laundry workers ... ..                           | 22 |
| Household and Ward workers ... ..                | 44 |
| Sewing-room workers ... ..                       | 17 |
| Handicraft workers—part-time adults              | 8  |
| "                  "      —      "      children | 33 |
| Garden workers —      "      adults              | 10 |
| Knitting machine and Fancy-work "                | 4  |
| Girls working in the stores      "               | 3  |

*Males.*

|                                       |    |
|---------------------------------------|----|
| Household and Ward workers ... ..     | 49 |
| Sewing-room workers ... ..            | 6  |
| Tailor's Shop—adults—full-time ... .. | 8  |
| Tailor's Shop—adults—part-time... ..  | 16 |
| Handicraft Shop—adults—full-time      | 26 |
| Handicraft Shop—adults—part-time      | 25 |
| Handicraft Shop—children—part-time    | 33 |
| Shoemaker's Shop—adults—full-time     | 18 |
| Shoemaker's Shop—adults—part-time     | 3  |
| Shoemaker's Shop—children—part-time   | 14 |
| Carpenters ... ..                     | 8  |
| Bedstead Repairer ... ..              | 1  |
| Plumber ... ..                        | 1  |
| Bricksetters ... ..                   | 2  |
| Painters ... ..                       | 2  |
| Farm ... ..                           | 23 |
| Gardens ... ..                        | 27 |
| Messenger ... ..                      | 1  |
| Electrician ... ..                    | 1  |

*Females.*

In a month, an average of 42 patients attended outside amusements, 90 attended Church Service and 159 attended Hospital dances, parties and concerts.

*Males.*

In a month, an average of 175 patients attended outside amusements, 200 attended Church Service and 225 attended Hospital dances, parties and concerts.

On Saturday afternoons there are 20 male patients working out from the Homes.

**Conclusion**

On the whole the year has proved satisfactory. The number of patients employed in domestic work has once again been radically cut down and fresh interests have been found for these patients.

The large number of low-grade patients still resident in the Homes continues to prove a problem. Everything is done to give them some form of occupation and entertainment, and as a result, numbers of them are doing part-time work in the various shops and in the gardens, whilst individual house-parties are held for their entertainment, and from time to time

special dances are held where all low-grade patients are invited and everything is done both by the staff and the high-grade patients to give them enjoyment.

During the 12 months no major cases of theft or destruction of property have occurred.

Only two adult patients absconded, and in each case influence had been exerted by relatives.

Periodically the Medical Superintendent has held informal talks with groups of adult male and female patients, and the high-grade patients now realise that running away is no solution to their problem. They have come to understand that they must make every effort to improve their mental ability and to improve themselves in whatever trade or occupation they may be working at. It has been pointed out to them that no person who is fit for licence will be held in the Homes, and this has produced a most happy spirit of co-operation with the patients.

In conclusion I wish again to offer my thanks for the co-operation I have had from the Members of the Cheshire County Council, the Mary Dendy Homes Committee and the County Officials.

I also wish to record my appreciation of the Mary Dendy Staff for the co-operation they have vouchsafed, both when on duty and in their leisure hours.

## **REPORTS OF THE MEDICAL SUPERINTENDENT OF WRENBURY HALL, NANTWICH.**

Quarterly reports have been submitted to the Wrenbury Hall Advisory Committee as usual; for statistics of patients treated see p. 26.

## **PUBLIC ASSISTANCE INSTITUTIONS**

In furtherance of the policy which has had to be followed in war-time, it has only been possible to carry out the more urgently needed improvements.

### **Arclid**

A new iron fire escape staircase has been erected at each end of the House Block, and one from the Nurses' Quarters on the second floor of the Hospital Block.

**Dutton**

Huts forming a disused First Aid Post at Runcorn have been taken down and re-erected at Dutton to provide additional Nurses' Quarters and extensions to the Laundry. New laundry equipment, including a washing machine, hydro-extractor and callender, has been installed. A number of the internal yard walls have been taken down and an external staircase to simplify the movement of stretcher cases has been provided.

**Nantwich**

A new double-compartment washing machine has been installed in the Laundry, and an additional boiling pan in the Kitchen. The obsolete ranges in the Hospital Ward Kitchens have been replaced with gas-heated hot closets.

**Northwich**

A boiling pan has been renewed in the Kitchen, and the Institution generally has been extensively re-decorated internally.

## Section XII.-Cancer

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For the treatment of Cancer generally, patients who consult their own doctors and can afford the cost of treatment (or get recommends) go to the larger Hospitals offering facilities in Liverpool, Manchester, Stockport, Birkenhead, Chester and Warrington.

For those who appeal to the local authority for treatment the following arrangements are in force.

(1) *Provided by the Local Authority—Clatterbridge County Hospital.*

Here Radium and Operative treatment are carried out but there are no facilities at present for deep X-Ray Therapy. Cases requiring such treatment are referred to the Radium Institute, Liverpool, from the Hospital. It is intended that when the extensions to Clatterbridge Hospital are completed such treatment will be available there.

(2) *By agreement with other Hospitals—(Public Assistance Committee).*

(a) Manchester Christie Hospital and Holt Radium Institute

(b) Chester Royal Infirmary

Arrangements are in force for Radium, Operative Treatment and Deep X-Ray Therapy at both the above Hospitals.

The following figures show the number of deaths from Cancer in the County area for the last ten years.

|      | Aggregate of |              |        |
|------|--------------|--------------|--------|
|      | Urban Areas. | Rural Areas. | Total. |
| 1935 | 863          | 275          | 1138   |
| 1936 | 904          | 266          | 1170   |
| 1938 | 660          | 270          | 930    |
| 1939 | 1004         | 224          | 1228   |
| 1940 | 978          | 277          | 1255   |
| 1941 | 1037         | 268          | 1305   |
| 1942 | 980          | 250          | 1230   |
| 1943 | 1104         | 248          | 1352   |
| 1944 | 1117         | 283          | 1400   |

## Section XIII.-Water Supplies, Sewerage and Sewage Disposal

War-time restrictions on expenditure in connection with works of water supply, sewerage and sewage disposal have resulted in an almost complete stoppage of such works.

Only one scheme of water supply was sanctioned and commenced during the year. This was the £29,500 scheme of the Northwich and Congleton Rural District Councils, which consisted of the laying of a trunk main from Hartford reservoir, through the parishes of Davenham, Rudheath, Lach Dennis and Allostock and terminating in the village of Holmes Chapel in the Rural District of Congleton. This main was urgently needed to remedy unsatisfactory pressure in the eastern parishes of the Northwich Rural District and to provide a bulk supply to Congleton Rural District whose own source of supply is now insufficient to meet present requirements.

The Public Enquiry into this scheme gave an opportunity for the views of the County Council to be put before the Ministry of Health concerning matters of water supply in Mid-Cheshire. The outcome of this was that a meeting of representatives of the County Council and the Mid-Cheshire Authorities was held on the 9th March, when it was decided that a Joint Committee should be constituted to investigate all matters pertinent to the formation of a Joint Water Board or Joint Water Boards comprising all or some of the Constituent Authorities of the Joint Committee and to report thereon to such Authorities in due course, consisting of representatives of the following Authorities:—

- (1) Cheshire County Council.
- (2) Borough of Crewe.
- (3) Alsager Urban District Council.
- (4) Nantwich Urban District Council.
- (5) Middlewich Urban District Council.
- (6) Sandbach Urban District Council.
- (7) Winsford Urban District Council.
- (8) Congleton Rural District Council.
- (9) Nantwich Rural District Council.
- (10) Northwich Rural District Council.

Two Consulting Engineers, one Financial Expert, one Geologist and Parliamentary Agents have been retained to advise the Joint Committee.

Other limited works of water supply carried out consist of extensions of distribution mains in rural areas to provide mains water to dairy farms for the purpose of improving the production of milk. Such extensions are subject to the approval of the Ministry of Agriculture and Fisheries.

Local Authorities' sewage works generally are being maintained in a satisfactory condition, but in several instances unsatisfactory effluents are being discharged owing to the capacity of the works being overtaxed. In two such instances serious pollution of streams is being caused. A number of schemes in varying stages of preparation are being held up by the war.

During the summer complaints were received of stream pollution from a number of camp sewage works in various parts of the County. Investigations shewed that the causes were due to sewage filters becoming clogged with grease—chiefly in camps occupied by American troops, and also owing to the camp personnel exceeding the capacity of the sewage works.

As a result of the County Council's action a scheme is being prepared for joint works of sewage disposal which will eliminate three existing sewage works serving the Urban Districts of Alderley Edge and Wilmslow and the parish of Mobberley in the Bucklow Rural District. The scheme will provide sewage disposal facilities for a part of Macclesfield Rural District and will also be capable of dealing with any future large scale development in the Urban District of Knutsford.

Before the control of highways passed from Rural Authorities to the County Council there were many instances of house drains or cesspool overflows being connected to road surface water drains, with or without the consent of the highway surveyors. In practice one isolated connection may not cause any trouble, but where several adjoining houses are connected it usually leads to complaints of nuisances because surface water drains invariably discharge into a ditch or watercourse. Applications for such connections are now referred to this Department by the County Surveyor. Consents for the connections are given subject to the construction of a tank and sewage filter and an undertaking being given that no nuisance will be caused. The agreements are subject to annual revision and are terminated upon sewerage facilities being provided by the local authority.

The Rural Water Supplies and Sewerage Act, which came into force in July, places a sum of fifteen million pounds at the disposal of the Ministry of Health to assist post-war

schemes for the provision or improvement of water supply and for the provision of sewerage facilities in rural areas. County Councils are also required to contribute towards the cost of such schemes. Local Authorities have been asked to consider the requirements of their districts and to prepare any necessary schemes.

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## Section XIV.-Housing

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A Report on Rural Housing by the Central Housing Advisory Committee was published in May. In accordance with its recommendations a Joint County Advisory Committee comprising the County Council and the ten Rural District Councils has been established. To ensure uniformity throughout the County in the reconditioning of unfit houses a County Housing Standard has been adopted. A survey of every working class house in Rural Districts is to be carried out by the Rural Authorities as a basis for a programme of improvement of rural housing conditions to be carried out over a period of years.

## APPENDIX OF STATISTICS

1944

### TABLE A.

Deaths by Causes.—Sex—

 Each Sanitary District.

### TABLE B.

Deaths by Causes.—Sex; Age—

 Urban Districts, Rural Districts.

### TABLE C.

Statistical Summary of enumerated and estimated population, area, births and deaths, birth rate and death rate, deaths of infants, infantile mortality, deaths from each of principal zymotic diseases, corresponding zymotic death rate, for each Sanitary District.

### TABLE D.

On the grounds of national security, the Ministry of Health desired that certain forms of statistics should not be published for 1941-43. As the need for such omissions no longer exists, the 1941-43 estimated populations, total live births, death rate and principal zymotic death rate, and number of deaths under 1 year, are appended in this special Table for each county district.

TABLE A (Urban i).

| CAUSES OF DEATH.                                      | Alderley Edge U.D. |     | Alsager U.D. |     | Altrincham M.B. |     | Behington M.B. |     | Bollington U.D. |     | Bowdon U.D. |     | Bredbury and Romiley U.D. |     | Cheadle and Gatley U.D. |     | Congleton M.B. |     | Crewe M.B. |     | Dukinfield M.B. |     | Ellesmere Port U.D. |     | Hale U.D. |     | Hazel Grove and Bramhall U.D. |     | Hooile U.D. |     | Hoylake U.D. |     |     |
|-------------------------------------------------------|--------------------|-----|--------------|-----|-----------------|-----|----------------|-----|-----------------|-----|-------------|-----|---------------------------|-----|-------------------------|-----|----------------|-----|------------|-----|-----------------|-----|---------------------|-----|-----------|-----|-------------------------------|-----|-------------|-----|--------------|-----|-----|
|                                                       | M.                 | F.  | M.           | F.  | M.              | F.  | M.             | F.  | M.              | F.  | M.          | F.  | M.                        | F.  | M.                      | F.  | M.             | F.  | M.         | F.  | M.              | F.  | M.                  | F.  | M.        | F.  | M.                            | F.  | M.          | F.  | M.           | F.  |     |
| ALL CAUSES ... ..                                     | 16                 | 21  | 17           | 24  | 205             | 182 | 220            | 214 | 27              | 38  | 20          | 30  | 102                       | 78  | 150                     | 141 | 101            | 86  | 274        | 282 | 116             | 118 | 124                 | 121 | 68        | 87  | 96                            | 103 | 38          | 62  | 143          | 181 |     |
| 1 Typhoid and Paratyphoid Fevers ... ..               | ...                | ... | ...          | ... | ...             | ... | ...            | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | ...            | ... | ...        | ... | ...             | ... | ...                 | ... | ...       | ... | ...                           | ... | ...         | ... | ...          | ... |     |
| 2 Cerebro-Spinal Fever ... ..                         | ...                | ... | ...          | ... | 1               | ... | 1              | ... | ...             | ... | ...         | ... | ...                       | 1   | ...                     | ... | 1              | ... | ...        | ... | ...             | ... | 1                   | ... | ...       | ... | 1                             | ... | ...         | ... | ...          | ... |     |
| 3 Scarlet Fever ... ..                                | ...                | ... | ...          | ... | ...             | ... | ...            | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | 1              | ... | ...        | 1   | ...             | ... | ...                 | ... | ...       | ... | ...                           | ... | ...         | ... | ...          | ... |     |
| 4 Whooping Cough ... ..                               | ...                | ... | ...          | ... | ...             | 1   | ...            | ... | ...             | ... | ...         | ... | ...                       | 1   | ...                     | ... | ...            | ... | 1          | 1   | ...             | ... | ...                 | ... | ...       | ... | ...                           | ... | 1           | ... | ...          | ... |     |
| 5 Diphtheria ... ..                                   | ...                | ... | ...          | ... | ...             | 1   | ...            | ... | ...             | ... | ...         | ... | 1                         | ... | ...                     | ... | ...            | ... | 1          | 3   | ...             | 2   | 2                   | 2   | ...       | ... | ...                           | ... | ...         | ... | ...          | ... |     |
| 6 Tuberculosis of Respiratory System ... ..           | ...                | ... | 1            | ... | 8               | 4   | 19             | 13  | ...             | ... | 1           | ... | 3                         | ... | 4                       | 1   | 4              | 4   | 12         | 6   | 5               | 3   | 3                   | 2   | 2         | ... | 3                             | ... | 1           | 1   | 9            | 3   |     |
| 7 Other forms of Tuberculosis ... ..                  | ...                | ... | ...          | ... | ...             | ... | 3              | 4   | ...             | ... | ...         | ... | 3                         | 1   | ...                     | ... | 1              | 1   | 4          | 1   | 1               | ... | 2                   | 1   | ...       | ... | 1                             | ... | ...         | ... | 2            | ... |     |
| 8 Syphilitic Diseases ... ..                          | ...                | ... | ...          | ... | 2               | 2   | 4              | 1   | ...             | ... | ...         | ... | ...                       | ... | 3                       | ... | ...            | ... | 4          | 1   | 2               | ... | 2                   | ... | 1         | ... | 1                             | ... | ...         | ... | 4            | ... |     |
| 9 Influenza ... ..                                    | ...                | ... | ...          | ... | 2               | 1   | 2              | ... | ...             | ... | ...         | ... | 1                         | 1   | 3                       | 3   | 2              | 2   | ...        | 1   | 3               | ... | 1                   | ... | ...       | ... | ...                           | 1   | ...         | 1   | ...          | ... |     |
| 10 Measles ... ..                                     | ...                | ... | ...          | ... | ...             | ... | ...            | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | 1              | ... | ...        | 2   | ...             | ... | ...                 | ... | ...       | ... | ...                           | 1   | ...         | 1   | ...          | ... |     |
| 11 Ac. polio-myel. & polio-enceph. ... ..             | ...                | ... | ...          | ... | ...             | 1   | ...            | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | ...            | ... | ...        | 1   | ...             | ... | ...                 | ... | ...       | ... | ...                           | ... | ...         | ... | ...          | ... |     |
| 12 Ac. inf. enceph. ... ..                            | ...                | ... | ...          | ... | ...             | ... | ...            | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | ...            | ... | ...        | 1   | ...             | ... | ...                 | ... | ...       | ... | ...                           | ... | ...         | ... | ...          | ... |     |
| 13 Cancer of b. cav. & œsoph. (M.) uterus (F.) ... .. | ...                | ... | 1            | 1   | 2               | 2   | 3              | 3   | 1               | 2   | ...         | ... | ...                       | 3   | 2                       | 1   | 1              | 2   | 4          | 11  | 1               | 3   | ...                 | 5   | 1         | 3   | 3                             | 3   | ...         | 4   | 2            | 6   |     |
| 14 Cancer of stomach & duodenum ... ..                | 1                  | 1   | 2            | 1   | 9               | 3   | 6              | 4   | 3               | ... | ...         | 1   | 5                         | 2   | 4                       | 6   | 4              | 3   | 10         | 9   | 8               | 4   | 3                   | 4   | ...       | 2   | 3                             | 8   | 1           | 2   | 3            | 5   |     |
| 15 Cancer of breast ... ..                            | ...                | ... | ...          | 1   | ...             | 3   | ...            | 5   | ...             | 4   | ...         | 1   | ...                       | 2   | ...                     | 8   | ...            | 3   | ...        | 10  | ...             | 4   | ...                 | 4   | ...       | 2   | ...                           | 2   | ...         | 2   | ...          | 4   |     |
| 16 Cancer of all other sites ... ..                   | ...                | 1   | 1            | 2   | 19              | 20  | 23             | 30  | 1               | 2   | 6           | 3   | 7                         | 9   | 18                      | 22  | 6              | 2   | 26         | 16  | 10              | 10  | 18                  | 16  | 6         | 10  | 9                             | 13  | 3           | 6   | 20           | 19  |     |
| 17 Diabetes ... ..                                    | 1                  | ... | ...          | ... | 3               | 3   | 4              | 2   | 1               | 1   | ...         | 1   | ...                       | 1   | 1                       | 2   | 2              | 1   | 2          | 1   | ...             | 1   | 1                   | 6   | ...       | 1   | 1                             | 2   | ...         | ... | 1            | 4   |     |
| 18 Intra-cran. vasc. lesions ... ..                   | 1                  | 10  | ...          | 1   | 26              | 24  | 18             | 21  | 7               | 3   | 1           | 7   | 10                        | 8   | 12                      | 22  | 8              | 15  | 28         | 33  | 3               | 10  | 16                  | 7   | 11        | 20  | 16                            | 10  | 6           | 6   | 14           | 25  |     |
| 19 Heart Disease ... ..                               | 2                  | 3   | 5            | 4   | 56              | 60  | 59             | 41  | 2               | 9   | 4           | 9   | 21                        | 19  | 43                      | 39  | 22             | 14  | 87         | 93  | 21              | 39  | 28                  | 34  | 28        | 29  | 31                            | 31  | 18          | 19  | 38           | 65  |     |
| 20 Other Diseases of Circulatory System ... ..        | 1                  | 1   | 1            | ... | 3               | 2   | 3              | 5   | 3               | 3   | 1           | 1   | 2                         | 4   | 3                       | 2   | 4              | 1   | 2          | 4   | 3               | ... | 1                   | 3   | 1         | 4   | 1                             | ... | ...         | 4   | 10           | ... |     |
| 21 Bronchitis ... ..                                  | ...                | ... | ...          | 3   | 14              | 10  | 11             | 12  | 2               | 1   | ...         | 1   | 12                        | 6   | 11                      | 9   | 9              | 5   | 19         | 10  | 14              | 7   | 5                   | 5   | 4         | 4   | 5                             | 3   | 3           | 7   | 11           | 6   |     |
| 22 Pneumonia ... ..                                   | ...                | ... | 1            | 1   | 8               | 7   | 8              | 6   | ...             | ... | ...         | ... | 9                         | 1   | 8                       | 1   | 1              | ... | 9          | 7   | 8               | 5   | 2                   | 4   | 1         | ... | 2                             | 5   | ...         | 2   | 4            | 8   |     |
| 23 Other Respiratory Diseases ... ..                  | ...                | ... | ...          | 2   | 5               | 1   | ...            | 4   | ...             | 1   | ...         | ... | 1                         | 1   | 1                       | 2   | 1              | 3   | 2          | ... | 4               | 1   | 2                   | ... | 1         | 2   | ...                           | 1   | ...         | 2   | 2            | ... |     |
| 24 Ulcer of stomach or duodenum ... ..                | ...                | ... | 1            | ... | 4               | 2   | 2              | 1   | ...             | ... | ...         | ... | ...                       | ... | 4                       | ... | 3              | ... | 4          | 1   | 2               | 1   | 3                   | ... | 1         | ... | ...                           | ... | 1           | ... | 1            | 2   |     |
| 25 Diarrhoea under 2 years ... ..                     | ...                | ... | ...          | ... | ...             | 1   | 3              | 1   | 1               | ... | ...         | ... | 1                         | ... | 2                       | 1   | 1              | ... | 2          | 1   | 1               | 2   | 1                   | 1   | ...       | ... | ...                           | 1   | ...         | 1   | ...          | ... |     |
| 26 Appendicitis ... ..                                | ...                | ... | ...          | ... | ...             | ... | ...            | ... | ...             | ... | 1           | ... | ...                       | ... | 2                       | 1   | 1              | ... | 3          | 1   | ...             | ... | ...                 | 1   | ...       | ... | ...                           | ... | ...         | 2   | 1            | 1   |     |
| 27 Other Digestive Diseases ... ..                    | 1                  | 1   | 1            | 1   | 2               | 1   | 3              | 5   | ...             | 2   | 2           | 1   | 1                         | 2   | 2                       | ... | 3              | ... | 6          | 5   | 2               | 4   | 5                   | 3   | 1         | ... | 1                             | ... | ...         | 1   | 5            | 5   |     |
| 28 Nephritis ... ..                                   | 1                  | 1   | ...          | 1   | 3               | 4   | 2              | 10  | 1               | 3   | 1           | ... | 1                         | 3   | 3                       | 1   | 3              | 5   | 5          | 9   | 4               | 7   | 4                   | 9   | 1         | ... | 1                             | 4   | ...         | ... | 6            | 2   |     |
| 29 Puerperal & post-abortion: Sepsis ... ..           | ...                | ... | ...          | ... | ...             | ... | ...            | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | ...            | ... | 3          | ... | ...             | ... | ...                 | ... | ...       | ... | ...                           | ... | ...         | ... | ...          | 2   |     |
| 30 Other maternal causes ... ..                       | ...                | ... | ...          | ... | ...             | ... | 3              | ... | ...             | ... | ...         | ... | ...                       | ... | 1                       | ... | 1              | ... | 3          | ... | 3               | ... | ...                 | ... | ...       | ... | ...                           | ... | 1           | ... | ...          | ... |     |
| 31 Premature Birth ... ..                             | ...                | ... | ...          | 1   | 1               | 3   | 3              | 3   | 1               | 2   | 2           | 1   | 3                         | 4   | 3                       | 1   | 1              | 1   | 7          | 4   | 1               | ... | 4                   | 1   | 1         | ... | 2                             | 1   | 1           | 1   | 1            | 3   |     |
| 32 Con. mal: birth inj: infant: dis: ... ..           | 1                  | ... | ...          | 1   | 7               | 3   | 9              | 9   | ...             | 1   | ...         | ... | 2                         | 3   | 4                       | 3   | 8              | 1   | 2          | 8   | 4               | ... | 5                   | 3   | 2         | 1   | 1                             | 3   | ...         | ... | 3            | ... |     |
| 33 Suicide ... ..                                     | 1                  | ... | ...          | ... | 3               | 2   | 4              | ... | ...             | ... | ...         | ... | 1                         | ... | ...                     | 1   | 1              | 3   | ...        | 2   | ...             | 1   | 4                   | 1   | 1         | ... | 1                             | ... | ...         | ... | ...          | 1   |     |
| 34 Road Traffic Accident ... ..                       | ...                | ... | ...          | ... | 1               | 3   | 4              | ... | ...             | 1   | ...         | 1   | ...                       | ... | ...                     | 2   | 1              | 8   | 3          | 1   | ...             | 3   | ...                 | ... | ...       | 1   | ...                           | 1   | ...         | ... | ...          | ... |     |
| 35 Other violent causes ... ..                        | 2                  | 1   | 2            | ... | 6               | 3   | 9              | 5   | 1               | ... | ...         | 1   | 2                         | ... | 5                       | ... | ...            | 4   | 1          | 2   | 3               | 2   | 2                   | 1   | ...       | ... | 2                             | 1   | ...         | 2   | 2            | ... |     |
| 36 All other causes ... ..                            | 4                  | 2   | 1            | 4   | 20              | 15  | 17             | 26  | 3               | 4   | 1           | 2   | 15                        | 6   | 12                      | 15  | 10             | 16  | 22         | 32  | 12              | 10  | 10                  | 5   | 5         | 8   | 10                            | 14  | 2           | 5   | 9            | 17  |     |
|                                                       | ...                | ... | ...          | ... | ...             | ... | ...            | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | ...            | ... | ...        | ... | ...             | ... | ...                 | ... | ...       | ... | ...                           | ... | ...         | ... | ...          | ... | ... |
|                                                       | ...                | ... | ...          | ... | ...             | ... | ...            | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | ...            | ... | ...        | ... | ...             | ... | ...                 | ... | ...       | ... | ...                           | ... | ...         | ... | ...          | ... | ... |
| Deaths of Infants (under one year) {                  | 1                  | ... | 1            | 2   | 11              | 11  | 20             | 16  | 2               | 2   | 2           | 1   | 11                        | 9   | 11                      | 6   | 14             | 2   | 17         | 18  | 10              | 3   | 13                  | 8   | 4         | 1   | 4                             | 3   | 2           | 3   | 6            | 5   |     |
| Total ... ..                                          | 1                  | ... | 1            | 2   | 11              | 11  | 20             | 11  | 2               | 2   | 1           | 1   | 10                        | 8   | 10                      | 6   | 13             | 2   | 16         | 16  | 10              | 3   | 12                  | 6   | 3         | 1   | 4                             | 3   | 2           | 1   | 5            | 3   |     |
| Legitimate ... ..                                     | ...                | ... | ...          | ... | ...             | ... | 5              | ... | ...             | 1   | ...         | 1   | 1                         | 1   | ...                     | 1   | ...            | 1   | 2          | ... | ...             | 1   | 3                   | 1   | ...       | ... | ...                           | ... | 2           | 1   | 2            | ... |     |
| Illegitimate ... ..                                   | 22                 | 21  | 56           | 45  | 326             | 354 | 437            | 420 | 42              | 35  | 21          | 23  | 157                       | 150 | 267                     | 249 | 181            | 113 | 466        | 447 | 176             | 167 | 296                 | 315 | 85        | 70  | 168                           | 138 | 88          | 60  | 214          | 217 |     |
| LIVE BIRTHS—Total ... ..                              | 22                 | 21  | 52           | 38  | 313             | 342 | 416            | 392 | 41              | 34  | 18          | 23  | 150                       | 148 | 262                     | 237 | 165            | 110 | 440        | 417 | 167             | 160 | 269                 | 296 | 85        | 66  | 163                           | 131 | 84          | 86  | 205          | 207 |     |
| Legitimate ... ..                                     | ...                | ... | 4            | 7   | 13              | 12  | 21             | 28  | 1               | 1   | 3           | ... | 7                         | ... | 6                       | 12  | 16             | 3   | 26         | 30  | 9               | 7   | 27                  | 19  | ...       | 4   | 5                             | 7   | 4           | 4   | 9            | 10  |     |
| Illegitimate ... ..                                   | 1                  | ... | 1            | 1   | 5               | 6   | 12             | 15  | ...             | 3   | ...         | ... | 5                         | 6   | 7                       | 5   | 6              | 3   | 15         | 9   | 7               | 7   | 8                   | 13  | 1         | 4   | 5                             | 9   | 2           | 3   | 8            | 6   |     |
| STILLBIRTHS—Total ... ..                              | 1                  | ... | 1            | 1   | 5               | 5   | 10             | 16  | ...             | 3   | ...         | ... | 5                         | 6   | 7                       | 5   | 5              | 2   | 13         | 9   | 6               | 7   | 8                   | 12  | 1         | 4   | 6                             | 9   | 2           | 3   | 8            | 6   |     |
| Legitimate ... ..                                     | ...                | ... | ...          | ... | ...             | ... | 2              | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | 1              | 1   | 2          | ... | 1               | ... | ...                 | 1   | ...       | ... | ...                           | ... | ...         | ... | ...          | ... |     |
| Illegitimate ... ..                                   | ...                | ... | ...          | ... | ...             | ... | ...            | ... | ...             | ... | ...         | ... | ...                       | ... | ...                     | ... | ...            | ... | ...        | ... | ...             | ... | ...                 | ... | ...       | ... | ...                           | ... | ...         | ... | ...          | ... | ... |



TABLE A.— (Rural).

| CAUSES OF DEATH.                                         | Bucklow<br>R.D. |     | Cheeter<br>R.D. |     | Congleton<br>R.D. |     | Disley R.D. |     | Macoleefield<br>R.D. |     | Nantwich<br>R.D. |     | Northwich<br>R.D. |     | Runcorn<br>R.D. |     | Tarvin<br>R.D. |     | Tintwistle<br>R.D. |     |
|----------------------------------------------------------|-----------------|-----|-----------------|-----|-------------------|-----|-------------|-----|----------------------|-----|------------------|-----|-------------------|-----|-----------------|-----|----------------|-----|--------------------|-----|
|                                                          | M.              | F.  | M.              | F.  | M.                | F.  | M.          | F.  | M.                   | F.  | M.               | F.  | M.                | F.  | M.              | F.  | M.             | F.  | M.                 | F.  |
| ALL CAUSES ... ..                                        | 51              | 50  | 94              | 89  | 63                | 65  | 25          | 18  | 121                  | 95  | 178              | 144 | 160               | 141 | 176             | 159 | 85             | 94  | 10                 | 20  |
| 1 Typhoid and Paratyphoid Fevers ... ..                  | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | ... | ...            | ... | ...                | ... |
| 2 Cerebro-Spinal Fever ... ..                            | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | 2   | 1               | ... | ...            | ... | ...                | ... |
| 3 Scarlet Fever ... ..                                   | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | ... | ...            | ... | ...                | ... |
| 4 Whooping Cough... ..                                   | ...             | 1   | 1               | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | ... | ...            | ... | ...                | ... |
| 5 Diphtheria ... ..                                      | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | ... | ...            | ... | ...                | ... |
| 6 Tuberculosis of Respiratory System ... ..              | 1               | ... | 6               | 3   | 1                 | ... | 1           | ... | 8                    | 1   | 6                | 1   | 7                 | 3   | 7               | 3   | 1              | 4   | ...                | ... |
| 7 Other forms of Tuberculosis ... ..                     | 1               | ... | 2               | 2   | 1                 | 2   | ...         | ... | 1                    | ... | ...              | ... | ...               | 4   | 1               | 2   | 1              | ... | ...                | ... |
| 8 Syphilitic Diseases ... ..                             | ...             | ... | 1               | 1   | ...               | ... | 1           | ... | ...                  | ... | ...              | ... | 1                 | ... | 1               | ... | 1              | ... | ...                | ... |
| 9 Influenza ... ..                                       | ...             | 2   | ...             | ... | ...               | 1   | ...         | ... | ...                  | 2   | 3                | 1   | ...               | ... | ...             | 3   | 2              | 1   | 1                  | ... |
| 10 Measles ... ..                                        | ...             | ... | ...             | ... | ...               | 1   | ...         | ... | ...                  | ... | ...              | 1   | ...               | ... | ...             | ... | ...            | 1   | ...                | ... |
| 11 Ac: polio-myel: & polio-enceph: ... ..                | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | 1               | ... | ...            | ... | ...                | ... |
| 12 Ac: inf: enceph: ... ..                               | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | ... | 2              | ... | ...                | ... |
| 13 Cancer of b: cav: & œsoph: (M.) uteris (F.) ... ..    | 4               | 1   | 1               | 1   | 2                 | 1   | ...         | ... | 2                    | 2   | 3                | ... | 3                 | 4   | 3               | 4   | 1              | ... | ...                | ... |
| 14 Cancer of stomach & duodenum ... ..                   | 2               | 2   | 2               | 3   | 1                 | 2   | ...         | ... | 1                    | 5   | 5                | 2   | 8                 | 3   | 3               | 3   | 3              | 5   | 1                  | 1   |
| 15 Cancer of breast ... ..                               | ...             | ... | ...             | 4   | ...               | 1   | ...         | ... | 4                    | ... | 4                | ... | 6                 | ... | 5               | ... | 3              | ... | ...                | ... |
| 16 Cancer of all other sites ... ..                      | 3               | 7   | 13              | 4   | 4                 | 5   | 4           | 2   | 12                   | 10  | 11               | 11  | 18                | 10  | 17              | 16  | 10             | 9   | 1                  | 5   |
| 17 Diabetes ... ..                                       | ...             | ... | 2               | 1   | ...               | 3   | ...         | ... | 2                    | 1   | 2                | ... | 2                 | 2   | 1               | ... | 1              | ... | 2                  | ... |
| 18 Intra-cran: vas: lesions ... ..                       | 4               | 4   | 10              | 14  | 5                 | 8   | 1           | 2   | 10                   | 10  | 17               | 16  | 14                | 16  | 15              | 22  | 9              | 19  | 1                  | 3   |
| 19 Heart Disease ... ..                                  | 7               | 15  | 25              | 25  | 13                | 15  | 9           | 4   | 33                   | 32  | 55               | 47  | 46                | 40  | 42              | 39  | 24             | 21  | 3                  | 3   |
| 20 Other Diseases of Circulatory System ... ..           | 2               | 2   | ...             | 3   | 1                 | ... | 3           | 3   | 7                    | ... | 4                | 4   | 10                | 4   | 12              | 4   | 1              | 2   | ...                | 1   |
| 21 Brouchitis ... ..                                     | 5               | 1   | 1               | 4   | 3                 | 5   | 1           | ... | 5                    | 6   | 8                | 4   | 8                 | 6   | 4               | 3   | 2              | 3   | ...                | 1   |
| 22 Pneumonia ... ..                                      | ...             | 4   | 5               | 4   | 3                 | 3   | ...         | 1   | 3                    | 1   | 3                | 3   | 2                 | 5   | 5               | 5   | 5              | 1   | ...                | ... |
| 23 Other Respiratory Diseases ... ..                     | ...             | 1   | 1               | 1   | ...               | 2   | 1           | ... | 3                    | ... | ...              | ... | 3                 | 2   | 3               | 1   | 1              | ... | ...                | ... |
| 24 Ulcer of stomach or duodenum ... ..                   | ...             | ... | 3               | 1   | 1                 | ... | ...         | ... | 2                    | ... | 3                | 2   | 3                 | ... | 1               | ... | ...            | ... | ...                | ... |
| 25 Diarrhoea (under 2 years) ... ..                      | 1               | ... | ...             | 1   | ...               | ... | ...         | ... | ...                  | ... | ...              | 1   | 1                 | ... | ...             | 2   | ...            | 1   | 1                  | ... |
| 26 Appendicitis ... ..                                   | ...             | ... | ...             | ... | ...               | ... | ...         | ... | 1                    | ... | ...              | 1   | ...               | ... | ...             | 1   | ...            | ... | ...                | ... |
| 27 Other Digestive Diseases ... ..                       | 3               | ... | 2               | 1   | 2                 | 2   | 1           | ... | 3                    | 2   | 3                | 4   | 2                 | 3   | 3               | 2   | 3              | 2   | ...                | ... |
| 28 Nephritis ... ..                                      | 1               | 1   | 4               | 1   | 1                 | ... | ...         | 1   | 5                    | 2   | 6                | 12  | 5                 | 5   | 10              | 11  | 10             | 6   | 1                  | 1   |
| 29 Puerperal & post-abortion: Sepele ... ..              | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | ... | ...            | ... | ...                | ... |
| 30 Other maternal causes ... ..                          | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | 1   | ...            | ... | ...                | ... |
| 31 Premature Birth ... ..                                | ...             | 3   | ...             | 2   | 2                 | ... | 1           | ... | 1                    | 3   | 4                | 4   | 3                 | 5   | 5               | 1   | ...            | ... | ...                | ... |
| 32 Con: mal: birth inj: infant: dis: ... ..              | 1               | ... | 5               | 2   | 1                 | 1   | ...         | ... | 4                    | 2   | 6                | 3   | 5                 | 1   | 3               | 5   | 1              | 2   | ...                | ... |
| 33 Suicide ... ..                                        | 1               | ... | ...             | ... | 1                 | 3   | ...         | ... | ...                  | 3   | 1                | 3   | ...               | 4   | 1               | ... | ...            | ... | ...                | ... |
| 34 Road Traffic Accident ... ..                          | 1               | 1   | 3               | 3   | 2                 | ... | ...         | 1   | 2                    | ... | 5                | 1   | 2                 | 1   | 3               | ... | ...            | 1   | ...                | ... |
| 35 Other violent causes ... ..                           | 5               | 1   | 1               | 4   | 2                 | 2   | ...         | ... | 5                    | 2   | 4                | 4   | 6                 | 1   | 5               | 3   | 3              | ... | ...                | ... |
| 36 All other causes ... ..                               | 9               | 4   | 6               | 4   | 17                | 8   | 2           | 4   | 13                   | 9   | 28               | 15  | 10                | 18  | 25              | 21  | 5              | 12  | 1                  | 2   |
|                                                          | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | ... | ...            | ... | ...                | ... |
|                                                          | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | ... | ...            | ... | ...                | ... |
|                                                          | ...             | ... | ...             | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | ...               | ... | ...             | ... | ...            | ... | ...                | ... |
| Deaths of Infants (under one year) { Total ... ..        | 2               | 4   | 7               | 7   | 3                 | 3   | 1           | ... | 7                    | 4   | 10               | 10  | 9                 | 7   | 10              | 10  | 5              | 5   | 1                  | ... |
| Deaths of Infants (under one year) { Legitimate ... ..   | 2               | 3   | 7               | 7   | 3                 | 2   | 1           | ... | 6                    | 4   | 9                | 10  | 7                 | 6   | 9               | 10  | 4              | 4   | 1                  | ... |
| Deaths of Infants (under one year) { Illegitimate ... .. | ...             | 1   | ...             | ... | ...               | 1   | ...         | ... | 1                    | ... | 1                | ... | 2                 | 1   | 1               | ... | 1              | 1   | ...                | ... |
| LIVE BIRTHS—Total ... ..                                 | 79              | 85  | 181             | 173 | 120               | 110 | 15          | 29  | 132                  | 139 | 244              | 241 | 275               | 247 | 302             | 277 | 136            | 114 | 15                 | 9   |
| Legitimate... ..                                         | 75              | 78  | 171             | 166 | 115               | 104 | 16          | 29  | 126                  | 135 | 232              | 233 | 253               | 225 | 293             | 263 | 129            | 102 | 14                 | 9   |
| Illegitimate ... ..                                      | 4               | 7   | 10              | 7   | 5                 | 6   | ...         | ... | 6                    | 4   | 12               | 8   | 22                | 22  | 9               | 14  | 7              | 12  | 1                  | ... |
| STILLBIRTHS—Total ... ..                                 | 1               | 2   | 6               | 6   | 3                 | 2   | 1           | ... | 3                    | 3   | 4                | 7   | 18                | 8   | 7               | 4   | 4              | 4   | ...                | ... |
| Legitimate .. ..                                         | 1               | 1   | 5               | 6   | 3                 | 2   | 1           | ... | 3                    | 3   | 4                | 7   | 13                | 8   | 7               | 4   | 4              | 3   | ...                | ... |
| Illegitimate ... ..                                      | ...             | 1   | 1               | ... | ...               | ... | ...         | ... | ...                  | ... | ...              | ... | 5                 | ... | ...             | ... | ...            | 1   | ...                | ... |



TABLE A.—(Urban ii).

| CAUSES OF DEATH.                               |  |  |  | Hyde M.B.           |     | Knutsford U.D. |     | Longdendale U.D. |     | Lymm U.D. |     | Macclesfield M.B. |     | Marple U.D. |     | Middlewich U.D. |     | Nantwich U.D. |     | Neston U.D. |     | Northwich U.D. |     | Runcorn U.D. |     | Sale M.B. |     | Sandbach U.D. |     | Stalybridge M.B. |     | Wilmslow U.D. |     | Wineford U.D. |     | Wirral U.D. |     |   |
|------------------------------------------------|--|--|--|---------------------|-----|----------------|-----|------------------|-----|-----------|-----|-------------------|-----|-------------|-----|-----------------|-----|---------------|-----|-------------|-----|----------------|-----|--------------|-----|-----------|-----|---------------|-----|------------------|-----|---------------|-----|---------------|-----|-------------|-----|---|
|                                                |  |  |  | M.                  | F.  | M.             | F.  | M.               | F.  | M.        | F.  | M.                | F.  | M.          | F.  | M.              | F.  | M.            | F.  | M.          | F.  | M.             | F.  | M.           | F.  | M.        | F.  | M.            | F.  | M.               | F.  | M.            | F.  | M.            | F.  | M.          | F.  |   |
| ALL CAUSES ... ..                              |  |  |  | 203                 | 194 | 34             | 39  | 25               | 36  | 37        | 28  | 234               | 222 | 63          | 83  | 41              | 35  | 52            | 38  | 71          | 49  | 136            | 122 | 153          | 136 | 228       | 221 | 61            | 45  | 124              | 178 | 72            | 92  | 72            | 81  | 95          | 108 |   |
| 1 Typhoid and Paratyphoid Fevers ... ..        |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | ...           | ... | ...         | ... | ...            | ... | ...          | ... | ...       | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         | ... |   |
| 2 Cerebro-Spinal Fever ... ..                  |  |  |  | ...                 | ... | 1              | ... | ...              | ... | 1         | ... | 1                 | ... | ...         | ... | ...             | ... | ...           | ... | ...         | ... | 1              | ... | ...          | ... | ...       | ... | ...           | ... | ...              | 1   | ...           | ... | ...           | ... | ...         |     |   |
| 3 Scarlet Fever ... ..                         |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | ...           | ... | ...         | ... | ...            | ... | ...          | ... | ...       | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         |     |   |
| 4 Whooping Cough ... ..                        |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | 1                 | ... | ...         | ... | ...             | ... | ...           | ... | 1           | ... | ...            | ... | ...          | 1   | ...       | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         |     |   |
| 5 Diphtheria ... ..                            |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | 1                 | 2   | ...         | ... | ...             | ... | ...           | ... | 1           | ... | ...            | ... | ...          | ... | ...       | ... | ...           | ... | ...              | ... | ...           | ... | ...           | 1   | ...         |     |   |
| 6 Tuberculosis of Respiratory System ... ..    |  |  |  | 7                   | 5   | ...            | 3   | 3                | ... | 2         | ... | 9                 | 7   | ...         | 4   | 2               | 3   | 1             | ... | ...         | 2   | 6              | 6   | 1            | 6   | 9         | 7   | 2             | 1   | 7                | 1   | 1             | 3   | 3             | 4   | 3           | 2   |   |
| 7 Other forms of Tuberculosis ... ..           |  |  |  | 1                   | 1   | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | 1   | ...             | ... | 1             | ... | 1           | ... | 1              | ... | 1            | ... | 1         | ... | ...           | 1   | 3                | ... | 1             | ... | 2             | 1   | ...         |     |   |
| 8 Syphilitic Diseases ... ..                   |  |  |  | 2                   | ... | ...            | ... | ...              | ... | ...       | ... | 2                 | 1   | 1           | ... | ...             | ... | 2             | ... | ...         | ... | 1              | ... | ...          | 2   | ...       | ... | ...           | ... | 1                | 1   | ...           | ... | ...           | ... | ...         |     |   |
| 9 Influenza ... ..                             |  |  |  | 1                   | 1   | ...            | ... | 2                | 1   | ...       | ... | ...               | ... | ...         | ... | 2               | 1   | 1             | 1   | 1           | ... | ...            | ... | 2            | 1   | 2         | ... | ...           | 2   | ...              | ... | ...           | ... | 2             | ... | 2           |     |   |
| 10 Measles ... ..                              |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | 1             | ... | ...         | ... | ...            | 3   | 1            | ... | ...       | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         |     |   |
| 11 Ac. polio-myel. & polio-enceph. ... ..      |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | ...           | ... | ...         | ... | ...            | ... | ...          | ... | 1         | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         |     |   |
| 12 Ac. inf. enceph. ... ..                     |  |  |  | 1                   | ... | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | ...           | ... | ...         | ... | ...            | 1   | 1            | ... | ...       | ... | ...           | ... | 2                | ... | ...           | ... | 1             | ... | ...         |     |   |
| 13 Cancer of b. cav. & œsoph. (M.) ... ..      |  |  |  | 1                   | 3   | 1              | 1   | ...              | 1   | 1         | ... | 6                 | 2   | ...         | ... | ...             | 1   | 1             | 1   | 1           | 1   | 3              | 2   | 3            | 3   | 2         | 5   | ...           | ... | 2                | 2   | 1             | 1   | ...           | 1   | 3           | 1   |   |
| 14 Cancer of stomach & duodenum ... ..         |  |  |  | 14                  | 5   | ...            | 3   | ...              | ... | 2         | ... | 5                 | 8   | 3           | 3   | 2               | ... | 1             | 2   | 5           | ... | 2              | 5   | 6            | 1   | 5         | 9   | ...           | ... | 4                | 5   | 4             | 3   | 3             | 2   | 3           | 4   |   |
| 15 Cancer of breast ... ..                     |  |  |  | ...                 | 5   | ...            | ... | ...              | 1   | ...       | 1   | ...               | 9   | ...         | 3   | ...             | 1   | ...           | 1   | ...         | ... | ...            | 3   | ...          | 6   | ...       | 7   | ...           | 2   | ...              | 6   | ...           | 2   | ...           | 1   | ...         | 5   |   |
| 16 Cancer of all other sites ... ..            |  |  |  | 20                  | 17  | 1              | 3   | 1                | 4   | 4         | 3   | 21                | 13  | 8           | 7   | 3               | 5   | 9             | 7   | 6           | 4   | 14             | 11  | 13           | 7   | 20        | 28  | 4             | 1   | 13               | 13  | 10            | 8   | 5             | 4   | 14          | 8   |   |
| 17 Diabetes ... ..                             |  |  |  | ...                 | 3   | ...            | ... | ...              | ... | ...       | 1   | 3                 | 2   | 1           | 1   | ...             | ... | ...           | 2   | ...         | 1   | 3              | 1   | 1            | ... | 2         | ... | ...           | 1   | 1                | 1   | 1             | 1   | ...           | 1   | 1           | 1   |   |
| 18 Intra-organ. vasc. lesions ... ..           |  |  |  | 25                  | 23  | 5              | 4   | 1                | 6   | 7         | 6   | 11                | 30  | 10          | 14  | 1               | 1   | 6             | 6   | 7           | 8   | 12             | 19  | 8            | 15  | 20        | 32  | 4             | 3   | 12               | 21  | 9             | 12  | 6             | 8   | 11          | 11  |   |
| 19 Heart Disease ... ..                        |  |  |  | 48                  | 57  | 6              | 10  | 5                | 7   | 6         | 9   | 58                | 53  | 16          | 31  | 16              | 13  | 18            | 8   | 23          | 14  | 44             | 34  | 46           | 40  | 62        | 55  | 13            | 8   | 26               | 62  | 19            | 22  | 20            | 24  | 29          | 39  |   |
| 20 Other Diseases of Circulatory System ... .. |  |  |  | 9                   | 8   | 4              | ... | 2                | 1   | 1         | ... | 5                 | 2   | 1           | ... | 1               | ... | ...           | 1   | 2           | 5   | 4              | 9   | 7            | 6   | 4         | 1   | 1             | 3   | 1                | 3   | 6             | 1   | 2             | 5   | 7           |     |   |
| 21 Bronchitis ... ..                           |  |  |  | 15                  | 13  | ...            | ... | ...              | 1   | 2         | 1   | 21                | 14  | 5           | 6   | 3               | ... | 1             | 1   | 3           | ... | 5              | 2   | 11           | 3   | 19        | 10  | 5             | 2   | 19               | 30  | 4             | 6   | 5             | 2   | 5           | 4   |   |
| 22 Pneumonia ... ..                            |  |  |  | 10                  | 8   | 1              | 1   | ...              | 1   | ...       | ... | 7                 | 7   | 1           | 2   | ...             | ... | 1             | ... | 1           | 2   | 7              | 4   | 9            | 5   | 5         | 6   | 4             | 4   | 5                | 7   | 1             | 5   | 4             | 3   | 1           | 1   |   |
| 23 Other Respiratory Diseases ... ..           |  |  |  | ...                 | ... | 1              | 1   | ...              | ... | ...       | 2   | 2                 | 4   | ...         | 1   | 1               | ... | ...           | 1   | ...         | 1   | 3              | 3   | 2            | ... | 5         | 4   | 1             | 1   | 1                | 1   | 1             | 1   | ...           | ... | ...         |     |   |
| 24 Ulcer of stomach or duodenum ... ..         |  |  |  | 4                   | 1   | ...            | ... | ...              | ... | ...       | ... | 3                 | 3   | 1           | ... | ...             | ... | ...           | ... | ...         | ... | 2              | ... | 2            | ... | 4         | ... | ...           | 1   | 1                | ... | ...           | ... | ...           | 1   | 3           | ... |   |
| 25 Diarrhœa under 2 years ... ..               |  |  |  | ...                 | 1   | ...            | 1   | ...              | ... | ...       | ... | 1                 | 1   | 1           | ... | ...             | ... | ...           | ... | ...         | ... | ...            | 1   | 2            | 1   | ...       | 1   | ...           | 1   | ...              | 1   | ...           | 1   | 1             | ... | 1           |     |   |
| 26 Appendicitis ... ..                         |  |  |  | ...                 | ... | ...            | ... | 1                | ... | ...       | ... | 3                 | ... | ...         | ... | ...             | ... | ...           | 1   | 1           | ... | ...            | ... | ...          | 1   | ...       | ... | ...           | 1   | ...              | ... | ...           | ... | ...           | ... | ...         |     |   |
| 27 Other Digestive Diseases ... ..             |  |  |  | 3                   | 5   | 1              | 2   | ...              | 4   | ...       | 2   | 3                 | 6   | 2           | 1   | ...             | 3   | ...           | ... | 1           | ... | 4              | 3   | 3            | 5   | 4         | 3   | 4             | 3   | 2                | 5   | 2             | 2   | 3             | 2   | 1           | 6   |   |
| 28 Nephritis ... ..                            |  |  |  | 7                   | 6   | 1              | ... | 1                | 4   | 2         | ... | 8                 | 10  | 2           | 3   | ...             | 1   | ...           | 1   | 2           | 3   | 5              | 3   | 2            | 4   | 5         | 7   | 1             | ... | 4                | 2   | ...           | 1   | ...           | 4   | ...         | 2   |   |
| 29 Puerperal & post-abortion Sepsis ... ..     |  |  |  | ...                 | 1   | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | ...           | ... | ...         | ... | 1              | ... | ...          | ... | 1         | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         |     |   |
| 30 Other maternal causes ... ..                |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | ...           | 1   | ...         | ... | ...            | ... | 1            | ... | 3         | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         |     |   |
| 31 Premature Birth ... ..                      |  |  |  | 3                   | 1   | ...            | 2   | ...              | 1   | 2         | ... | 7                 | 2   | 3           | ... | ...             | 1   | 1             | 1   | 1           | 2   | 1              | 2   | 7            | 6   | 6         | 8   | 1             | ... | ...              | ... | 1             | ... | ...           | 1   | ...         | 2   |   |
| 32 Con. mal. birth inj. infant. dis. ... ..    |  |  |  | 5                   | 1   | 1              | 1   | 2                | ... | 1         | ... | 10                | 3   | ...         | 2   | 2               | ... | 2             | 1   | 4           | 2   | 4              | 4   | 4            | 4   | 7         | 3   | 2             | ... | 3                | 6   | 1             | 2   | 5             | 2   | 2           | ... |   |
| 33 Suicide ... ..                              |  |  |  | 4                   | 3   | 1              | ... | 1                | ... | ...       | ... | 2                 | 3   | 2           | ... | ...             | ... | ...           | ... | ...         | ... | 1              | 4   | 1            | 2   | ...       | ... | ...           | 2   | 2                | ... | 1             | 2   | 1             | 1   | ...         | ... |   |
| 34 Road Traffic Accident ... ..                |  |  |  | 2                   | 2   | 2              | ... | 2                | ... | 1         | ... | ...               | ... | ...         | ... | ...             | 1   | 2             | ... | ...         | 2   | ...            | 1   | 1            | 4   | 1         | ... | 1             | 1   | ...              | 2   | ...           | 1   | ...           | ... | ...         |     |   |
| 35 Other violent causes ... ..                 |  |  |  | 7                   | 8   | 1              | 1   | 1                | 2   | 1         | ... | 5                 | 3   | 1           | 1   | 3               | ... | 1             | ... | 4           | ... | 3              | 3   | 6            | 2   | ...       | 2   | 2             | 3   | 3                | 1   | 4             | 2   | 7             | 3   | 1           | 2   |   |
| 36 All other causes ... ..                     |  |  |  | 14                  | 16  | 7              | 6   | 3                | 2   | 4         | 3   | 39                | 37  | 5           | 4   | 6               | 4   | 7             | 4   | 7           | 2   | 11             | 7   | 11           | 11  | 37        | 21  | 15            | 14  | 10               | 16  | 6             | 12  | 6             | 9   | 10          | 9   |   |
|                                                |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | ...           | ... | ...         | ... | ...            | ... | ...          | ... | ...       | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         | ... |   |
|                                                |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | ...           | ... | ...         | ... | ...            | ... | ...          | ... | ...       | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         | ... |   |
|                                                |  |  |  | ...                 | ... | ...            | ... | ...              | ... | ...       | ... | ...               | ... | ...         | ... | ...             | ... | ...           | ... | ...         | ... | ...            | ... | ...          | ... | ...       | ... | ...           | ... | ...              | ... | ...           | ... | ...           | ... | ...         | ... |   |
| Deaths of Infants (under one year) {           |  |  |  | Total ... ..        | 8   | 4              | ... | 3                | 2   | 2         | 3   | ...               | 20  | 10          | 4   | 3               | 3   | 2             | 4   | 2           | 6   | 5              | 7   | 6            | 15  | 15        | 18  | 16            | 6   | 1                | 6   | 11            | 4   | 6             | 8   | 7           | 3   | 4 |
|                                                |  |  |  | Legitimate ... ..   | 8   | 2              | ... | 3                | 2   | 2         | 3   | ...               | 17  | 10          | 4   | 3               | 3   | 2             | 2   | 2           | 6   | 4              | 6   | 5            | 13  | 15        | 17  | 15            | 5   | 1                | 6   | 11            | 4   | 4             | 8   | 6           | 3   | 4 |
|                                                |  |  |  | Illegitimate ... .. | ... | 2              | ... | ...              | ... | ...       | ... | ...               | 3   | ...         | ... | ...             | ... | 2             | ... | ...         | 1   | 1              | 1   | 2            | ... | 1         | 1   | ...           | ... | ...              | ... | ...           | 1   | ...           | 1   | ...         | ... |   |
| LIVE BIRTHS—Total ... ..                       |  |  |  | 275                 | 263 | 43             | 53  | 30               | 39  | 68        | 50  | 267               | 259 | 94          | 95  | 68              | 62  | 52            | 65  | 102         | 69  | 166            | 150 | 244          | 212 | 395       | 353 | 73            | 63  | 175              | 183 | 107           | 132 | 96            | 92  | 159         | 147 |   |
| Legitimate ... ..                              |  |  |  | 257                 | 246 | 38             | 46  | 27               | 38  | 63        | 47  | 249               | 239 | 89          | 93  | 65              | 65  | 47            | 63  | 96          | 66  | 151            | 138 | 235          | 205 | 383       | 335 | 72            | 61  | 165              | 180 | 106           | 125 | 94            | 85  | 152         | 138 |   |
| Illegitimate ... ..                            |  |  |  | 18                  | 17  | 5              | 7   | 3                | 1   | 6         | 3   | 18                | 20  | 5           | 2   | 3               | 7   | 5             | 5   | 6           | 3   | 14             | 12  | 9            | 7   | 12        | 18  | 1             | 2   | 10               | 3   | 1             | 7   | 2             | 7   | 7           | 9   |   |
| STILL BIRTHS—Total ... ..                      |  |  |  | 11                  | 9   |                |     |                  |     |           |     |                   |     |             |     |                 |     |               |     |             |     |                |     |              |     |           |     |               |     |                  |     |               |     |               |     |             |     |   |



TABLE B

| CAUSES OF DEATH.                                   | Sex. | AGGREGATE OF URBAN DISTRICTS. |     |     |     |     |     |     |     |     |     |      |     | AGGREGATE OF RURAL DISTRICTS. |     |     |     |     |     |     |     |     |     |     |     |
|----------------------------------------------------|------|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                    |      | All Ages                      | 0—  | 1—  |     | 5—  | 15— |     |     | 45— |     | 65—  |     | All Ages                      | 0—  | 1—  |     | 5—  | 15— |     |     | 45— |     | 65— |     |
| ALL CAUSES ... ..                                  | M    | 3417                          | 245 | 52  | ... | 42  | 283 | ... | ... | 968 | ... | 1822 | ... | 963                           | 55  | 12  | ... | 14  | 90  | ... | ... | 255 | ... | 537 | ... |
|                                                    | F    | 3475                          | 186 | 42  | ... | 37  | 305 | ... | ... | 726 | ... | 2179 | ... | 875                           | 50  | 14  | ... | 11  | 74  | ... | ... | 169 | ... | 557 | ... |
| 1. Typhoid and Paratyphoid Fevers                  | M    | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 2. Cerebro-spinal Fever                            | M    | 8                             | 1   | 2   | ... | 1   | 3   | ... | ... | 1   | ... | ...  | ... | 1                             | ... | 1   | ... | 1   | ... | ... | ... | 1   | ... | ... | ... |
|                                                    | F    | 3                             | 1   | 1   | ... | ... | 1   | ... | ... | ... | ... | ...  | ... | 2                             | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 3. Scarlet fever                                   | M    | 1                             | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | 1                             | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 4. Whooping cough                                  | M    | 4                             | 3   | 1   | ... | ... | ... | ... | ... | ... | ... | ...  | ... | 1                             | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | 5                             | 5   | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ... | 1                             | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5. Diphtheria                                      | M    | 6                             | ... | 5   | ... | 1   | ... | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | 11                            | ... | 7   | ... | 4   | ... | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 6. Tuberculosis of respiratory system              | M    | 131                           | ... | ... | ... | ... | 56  | ... | ... | 62  | ... | 13   | ... | 38                            | ... | ... | ... | ... | 18  | ... | ... | 18  | ... | 2   | ... |
|                                                    | F    | 90                            | 1   | 2   | ... | 1   | 67  | ... | ... | 12  | ... | 7    | ... | 15                            | ... | 1   | ... | 2   | 8   | ... | ... | 4   | ... | ... | ... |
| 7. Other forms of tuberculosis                     | M    | 21                            | ... | 8   | ... | 4   | 8   | ... | ... | ... | ... | 1    | ... | 7                             | ... | 5   | ... | ... | 1   | ... | ... | 1   | ... | ... | ... |
|                                                    | F    | 20                            | 2   | 3   | ... | 2   | 11  | ... | ... | 2   | ... | ...  | ... | 10                            | ... | 1   | ... | 3   | 4   | ... | ... | 2   | ... | ... | ... |
| 8. Syphilitic diseases                             | M    | 33                            | 1   | ... | ... | ... | 4   | ... | ... | 19  | ... | 9    | ... | 5                             | ... | ... | ... | ... | ... | ... | 4   | ... | 1   | ... | ... |
|                                                    | F    | 7                             | ... | ... | ... | ... | ... | ... | ... | 6   | ... | 1    | ... | 1                             | ... | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... |
| 9. Influenza                                       | M    | 22                            | 1   | ... | ... | 1   | 4   | ... | ... | 7   | ... | 9    | ... | 6                             | ... | ... | ... | ... | 2   | ... | ... | 2   | ... | 2   | ... |
|                                                    | F    | 24                            | 1   | ... | ... | 1   | 1   | ... | ... | 1   | ... | 20   | ... | 10                            | ... | ... | ... | ... | 1   | ... | ... | ... | ... | 9   | ... |
| 10. Measles                                        | M    | 4                             | 1   | 3   | ... | ... | ... | ... | ... | ... | ... | ...  | ... | 3                             | 1   | 2   | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | 4                             | 2   | ... | ... | 2   | ... | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 11. Ac: polio-myel: & polio-enceph:                | M    | 1                             | ... | ... | ... | ... | ... | ... | ... | 1   | ... | ...  | ... | 1                             | ... | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | 2                             | ... | ... | ... | 1   | 1   | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 12. Ac: inf: enceph:...                            | M    | 3                             | ... | ... | ... | ... | 1   | ... | ... | 1   | ... | 1    | ... | 2                             | ... | ... | ... | ... | ... | ... | 1   | ... | 1   | ... | ... |
|                                                    | F    | 4                             | ... | ... | ... | ... | 3   | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 13. Cancer of buc: cav: & oesoph: (M.) uterus (F.) | M    | 46                            | ... | ... | ... | ... | 1   | ... | ... | 12  | ... | 33   | ... | 19                            | ... | ... | ... | ... | ... | ... | 3   | ... | 16  | ... | ... |
|                                                    | F    | 74                            | ... | ... | ... | ... | 8   | ... | ... | 36  | ... | 30   | ... | 13                            | ... | ... | ... | ... | 1   | ... | 5   | ... | 7   | ... | ... |
| 14. Cancer of stomach and duodenum                 | M    | 121                           | ... | ... | ... | ... | 9   | ... | ... | 47  | ... | 65   | ... | 26                            | ... | ... | ... | ... | ... | ... | 12  | ... | 14  | ... | ... |
|                                                    | F    | 105                           | ... | ... | ... | ... | 3   | ... | ... | 35  | ... | 67   | ... | 26                            | ... | ... | ... | ... | ... | ... | 6   | ... | 20  | ... | ... |
| 15. Cancer of breast                               | M    | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | 108                           | ... | ... | ... | ... | 13  | ... | ... | 42  | ... | 53   | ... | 27                            | ... | ... | ... | ... | 5   | ... | ... | 8   | ... | 14  | ... |
| 16. Cancer of all other sites...                   | M    | 339                           | ... | 1   | ... | ... | 19  | ... | ... | 145 | ... | 174  | ... | 93                            | ... | ... | ... | 1   | 9   | ... | ... | 32  | ... | 51  | ... |
|                                                    | F    | 324                           | ... | ... | ... | 1   | 14  | ... | ... | 135 | ... | 174  | ... | 79                            | ... | ... | ... | ... | 6   | ... | ... | 25  | ... | 48  | ... |
| 17. Diabetes                                       | M    | 28                            | ... | ... | ... | ... | 2   | ... | ... | 11  | ... | 15   | ... | 5                             | ... | ... | ... | ... | 2   | ... | ... | 1   | ... | 2   | ... |
|                                                    | F    | 42                            | ... | ... | ... | ... | 3   | ... | ... | 8   | ... | 31   | ... | 14                            | ... | ... | ... | ... | 1   | ... | ... | 2   | ... | 11  | ... |
| 18. Intra-cranial vascular lesions                 | M    | 332                           | ... | ... | ... | ... | 5   | ... | ... | 80  | ... | 247  | ... | 86                            | ... | ... | ... | ... | 3   | ... | ... | 21  | ... | 62  | ... |
|                                                    | F    | 441                           | ... | ... | ... | ... | 8   | ... | ... | 94  | ... | 338  | ... | 114                           | ... | ... | ... | ... | 3   | ... | ... | 25  | ... | 86  | ... |
| 19. Heart disease                                  | M    | 920                           | ... | ... | ... | 1   | 33  | ... | ... | 241 | ... | 645  | ... | 257                           | ... | ... | ... | ... | 9   | ... | ... | 66  | ... | 182 | ... |
|                                                    | F    | 974                           | ... | ... | ... | 4   | 28  | ... | ... | 132 | ... | 810  | ... | 241                           | ... | ... | ... | 1   | 9   | ... | ... | 42  | ... | 189 | ... |
| 20. Other diseases of circulatory system           | M    | 90                            | 1   | ... | ... | ... | 5   | ... | ... | 10  | ... | 74   | ... | 40                            | ... | ... | ... | ... | 1   | ... | ... | 12  | ... | 27  | ... |
|                                                    | F    | 85                            | ... | 1   | ... | 1   | ... | ... | ... | 9   | ... | 74   | ... | 23                            | ... | ... | ... | 1   | 1   | ... | ... | 1   | ... | 20  | ... |
| 21. Bronchitis                                     | M    | 243                           | 10  | 2   | ... | ... | 18  | ... | ... | 94  | ... | 119  | ... | 37                            | 1   | 1   | ... | ... | 1   | ... | ... | 9   | ... | 25  | ... |
|                                                    | F    | 183                           | 5   | 2   | ... | ... | 8   | ... | ... | 33  | ... | 135  | ... | 33                            | 1   | ... | ... | ... | 1   | ... | ... | 4   | ... | 27  | ... |
| 22. Pneumonia                                      | M    | 118                           | 31  | 7   | ... | 4   | 11  | ... | ... | 36  | ... | 29   | ... | 26                            | 6   | 2   | ... | ... | 3   | ... | ... | 7   | ... | 8   | ... |
|                                                    | F    | 103                           | 26  | 7   | ... | 5   | 16  | ... | ... | 13  | ... | 36   | ... | 27                            | 6   | 1   | ... | ... | 4   | ... | ... | 5   | ... | 11  | ... |
| 23. Other respiratory diseases                     | M    | 36                            | ... | ... | ... | ... | 3   | ... | ... | 15  | ... | 18   | ... | 12                            | ... | ... | ... | ... | 2   | ... | ... | 3   | ... | 7   | ... |
|                                                    | F    | 40                            | 1   | ... | ... | ... | 5   | ... | ... | 13  | ... | 21   | ... | 7                             | ... | 1   | ... | ... | 2   | ... | ... | 3   | ... | 1   | ... |
| 24. Ulcer of stomach or duodenum                   | M    | 46                            | ... | ... | ... | ... | 7   | ... | ... | 30  | ... | 9    | ... | 13                            | ... | ... | ... | ... | 2   | ... | ... | 7   | ... | 4   | ... |
|                                                    | F    | 13                            | ... | ... | ... | ... | 1   | ... | ... | 5   | ... | 7    | ... | 3                             | ... | ... | ... | ... | 1   | ... | ... | 1   | ... | 1   | ... |
| 25. Diarrhoea under 2 years                        | M    | 20                            | 19  | 1   | ... | ... | ... | ... | ... | ... | ... | ...  | ... | 3                             | 3   | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | 16                            | 15  | 1   | ... | ... | ... | ... | ... | ... | ... | ...  | ... | 5                             | 4   | 1   | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 26. Appendicitis                                   | M    | 14                            | ... | ... | ... | 5   | 3   | ... | ... | 2   | ... | 4    | ... | 1                             | ... | ... | ... | 1   | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | 8                             | ... | 2   | ... | ... | 2   | ... | ... | 2   | ... | 2    | ... | 2                             | ... | ... | ... | 1   | 1   | ... | ... | ... | ... | ... | ... |
| 27. Other digestive diseases...                    | M    | 68                            | 3   | 3   | ... | ... | 7   | ... | ... | 22  | ... | 33   | ... | 22                            | ... | ... | ... | 1   | 2   | ... | ... | 7   | ... | 12  | ... |
|                                                    | F    | 83                            | 4   | 2   | ... | 1   | 9   | ... | ... | 23  | ... | 44   | ... | 16                            | 1   | 1   | ... | ... | 1   | ... | ... | 7   | ... | 6   | ... |
| 28. Nephritis                                      | M    | 76                            | ... | 1   | ... | 1   | 11  | ... | ... | 27  | ... | 36   | ... | 43                            | ... | ... | ... | ... | 4   | ... | ... | 14  | ... | 25  | ... |
|                                                    | F    | 110                           | 1   | 1   | ... | ... | 11  | ... | ... | 40  | ... | 57   | ... | 40                            | ... | ... | ... | ... | 2   | ... | ... | 9   | ... | 29  | ... |
| 29. Puerperal & post-abortion: sepsis              | F    | 8                             | ... | ... | ... | ... | 8   | ... | ... | ... | ... | ...  | ... | ...                           | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 30. Other maternal causes                          | F    | 17                            | ... | ... | ... | ... | 16  | ... | ... | 1   | ... | ...  | ... | 2                             | ... | ... | ... | ... | 2   | ... | ... | ... | ... | ... | ... |
| 31. Premature birth                                | M    | 64                            | ... | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ... | 16                            | 16  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
|                                                    | F    | 55                            | 64  | ... | ... | ... | ... | ... | ... | ... | ... | ...  | ... | 18                            | 18  | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 32. Con: mal: birth inj: infant: die:              | M    | 103                           | 91  | 6   | ... | ... | 3   | ... | ... | 2   | ... | 1    | ... | 26                            | 23  | ... | ... | 2   | ... | ... | ... | 1   | ... | ... | ... |
|                                                    | F    | 67                            | 56  | 4   | ... | 3   | 4   | ... | ... | ... | ... | ...  | ... | 16                            | 12  | 1   | ... | ... | 2   | ... | ... | ... | ... | 1   | ... |
| 33. Suicide                                        | M    | 39                            | ... | ... | ... | ... | 11  | ... | ... | 15  | ... | 13   | ... | 12                            | ... | ... | ... | ... | 6   | ... | ... | 5   | ... | 1   | ... |
|                                                    | F    | 21                            | ... | ... | ... | ... | 4   | ... | ... | 12  | ... | 5    | ... | 5                             | ... | ... | ... | ... | 3   | ... | ... | 1   | ... | 1   | ... |
| 34. Road traffic accident                          | M    | 43                            | ... | 4   | ... | 7   | 16  | ... | ... | 8   | ... | 8    | ... | 18                            | ... | ... | ... | 3   | 4   | ... | ... | 8   | ... | 3   | ... |
|                                                    | F    | 13                            | ... | 2   | ... | 2   | 2   | ... | ... | 3   | ... | 4    | ... | 8                             | ... | 1   | ... | 2   | 2   | ... | ... | 2   | ... | 1   | ... |
| 35. Other violent causes                           | M    | 86                            | 3   | 6   | ... | 8   | 26  | ... | ... | 19  | ... | 24   | ... | 31                            | 3   | 3   | ... | 3   | 10  | ... | ... | 5   | ... | 7   | ... |
|                                                    | F    | 56                            | 4   | 1   | ... | 2   | 5   | ... | ... | 6   | ... | 38   | ... | 17                            | 2   | ... | ... | 1   | 1   | ... | ... | 2   | ... | 11  | ... |
| 36. All other causes                               | M    | 351                           | 16  | 2   | ... | 8   | 22  | ... | ... | 61  | ... | 242  | ... | 116                           | 2   | ... | ... | 2   | 11  | ... | ... | 16  | ... | 85  | ... |
|                                                    | F    | 358                           | 7   | 5   | ... | 6   | 53  | ... | ... | 63  | ... | 224  | ... | 97                            | 4   | 3   | ... | ... | 12  | ... | ... | 14  | ... | 64  | ... |



TABLE C

| SANITARY DISTRICTS.          | Population at Census, 1931. | Estimated Population in middle of 1944. | Area in Acres 1944 | Illegitimate Births. | Still Births. | Total Live Births. | Live Birth rate per 1000 | Deaths. | Death-rate per 1000 | Deaths from |          |             |             |                 |                         |            | Deaths from Principal Zymotic Diseases. | Principal Zymotic Diseases Death-rate. | No. of Deaths under one year | Deaths under one year to 1000 Births. | Name of Medical Officer of Health at 1/9/45.        |
|------------------------------|-----------------------------|-----------------------------------------|--------------------|----------------------|---------------|--------------------|--------------------------|---------|---------------------|-------------|----------|-------------|-------------|-----------------|-------------------------|------------|-----------------------------------------|----------------------------------------|------------------------------|---------------------------------------|-----------------------------------------------------|
|                              |                             |                                         |                    |                      |               |                    |                          |         |                     | Small-pox.  | Measles. | Scarlatina. | Diphtheria. | Whooping Cough. | Typhoid and Paratyphoid | Diarrhoea. |                                         |                                        |                              |                                       |                                                     |
| Column Number                | 1                           | 2                                       | 3                  | 4                    | 5             | 6                  | 7                        | 8       | 9                   | 10          | 11       | 12          | 13          | 14              | 15                      | 16         | 17                                      | 18                                     | 19                           | 20                                    | 21                                                  |
| <b>MUNICIPAL BOROUGHS</b>    |                             |                                         |                    |                      |               |                    |                          |         |                     |             |          |             |             |                 |                         |            |                                         |                                        |                              |                                       |                                                     |
| Altrincham                   | 29353                       | 36690                                   | 3477               | 25                   | 11            | 680                | 18.5                     | 337     | 10.5                | ...         | ...      | ...         | 1           | 1               | ...                     | 1          | 3                                       | .08                                    | 22                           | 32                                    | *Dr. R. R. Duncan                                   |
| Bebington                    | 31877                       | 41970                                   | 12234              | 49                   | 27            | 857                | 20.4                     | 434     | 10.3                | ...         | ...      | ...         | ...         | ...             | ...                     | 4          | 4                                       | .10                                    | 36                           | 42                                    | *Dr. D. O. Macdonald                                |
| Congleton                    | 14666                       | 13950                                   | 5537               | 19                   | 9             | 294                | 21.1                     | 187     | 13.4                | ...         | 1        | 1           | ...         | ...             | ...                     | 1          | 3                                       | .22                                    | 16                           | 54                                    | †Dr. R. B. Davidson                                 |
| Crewe                        | 48321                       | 49250                                   | 4386               | 56                   | 24            | 913                | 18.9                     | 556     | 11.5                | ...         | 2        | 1           | 4           | 2               | ...                     | 3          | 12                                      | .25                                    | 35                           | 38                                    | *Dr. J. Ingram                                      |
| Dunkinfield                  | 19335                       | 16900                                   | 1725               | 16                   | 14            | 343                | 20.3                     | 233     | 13.7                | ...         | ...      | ...         | 2           | ...             | ...                     | 3          | 5                                       | .30                                    | 13                           | 38                                    | Dr. Gladys Brice                                    |
| Hyde                         | 32313                       | 23840                                   | 4170               | 35                   | 20            | 638                | 18.7                     | 397     | 13.8                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .03                                    | 12                           | 22                                    | *Dr. F. W. C. Brown                                 |
| Macclesfield                 | 35552                       | 33450                                   | 4640               | 38                   | 9             | 526                | 15.7                     | 456     | 13.6                | ...         | ...      | ...         | 3           | 1               | ...                     | 2          | 6                                       | .18                                    | 30                           | 57                                    | †Dr. R. Prondfoot                                   |
| Sale                         | 28071                       | 39650                                   | 3629               | 30                   | 21            | 748                | 18.9                     | 449     | 11.3                | ...         | ...      | ...         | ...         | 1               | ...                     | 1          | 2                                       | .05                                    | 34                           | 45                                    | †Dr. D. Connolly                                    |
| Stalybridge                  | 24978                       | 20610                                   | 3190               | 13                   | 13            | 358                | 17.4                     | 302     | 14.7                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .05                                    | 17                           | 47                                    | *Dr. J. Gorman                                      |
| Total Municipal Boroughs     | 264516                      | 280310                                  | 43038              | 281                  | 148           | 5257               | 18.8                     | 3401    | 12.1                | ...         | 3        | 2           | 10          | 5               | ...                     | 17         | 37                                      | .13                                    | 215                          | 41                                    |                                                     |
| <b>OTHER URBAN DISTRICTS</b> |                             |                                         |                    |                      |               |                    |                          |         |                     |             |          |             |             |                 |                         |            |                                         |                                        |                              |                                       |                                                     |
| Alderley Edge                | 3279                        | 3135                                    | 699                | ...                  | 1             | 43                 | 13.7                     | 37      | 11.8                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 1                            | 23                                    | *Dr. D. G. Andereon                                 |
| Alsager                      | 2852                        | 5001                                    | 2241               | 11                   | 2             | 101                | 20.2                     | 41      | 8.2                 | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 3                            | 30                                    | Dr. H. P. Harpur                                    |
| Bollington                   | 5082                        | 4714                                    | 1442               | 2                    | 3             | 77                 | 16.3                     | 65      | 13.8                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .21                                    | 4                            | 52                                    | Dr. J. W. Chadwick                                  |
| Bowdon                       | 3341                        | 2973                                    | 1090               | 3                    | ...           | 44                 | 14.8                     | 50      | 16.8                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 3                            | 68                                    | Dr. W. N. W. Kennedy                                |
| Bredbury & Romiley           | 11690                       | 15910                                   | 4753               | 9                    | 11            | 307                | 19.3                     | 180     | 11.3                | ...         | ...      | ...         | 1           | 1               | ...                     | 1          | 3                                       | .19                                    | 20                           | 65                                    | †Dr. W. Lee                                         |
| Cheadle & Gatley             | 18335                       | 28770                                   | 5299               | 17                   | 12            | 516                | 17.9                     | 291     | 10.1                | ...         | ...      | ...         | ...         | ...             | ...                     | 3          | 3                                       | .10                                    | 17                           | 33                                    | *Dr. D. G. Anderson                                 |
| Ellesmere Port               | 23057                       | 27220                                   | 9144               | 46                   | 21            | 611                | 22.4                     | 245     | 9.0                 | ...         | ...      | ...         | 4           | ...             | ...                     | 2          | 6                                       | .22                                    | 21                           | 34                                    | †Dr. K. C. Kershaw                                  |
| Hale                         | 11011                       | 11440                                   | 2264               | 4                    | 5             | 155                | 13.5                     | 155     | 13.5                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 5                            | 32                                    | Dr. D. Connolly                                     |
| Hazel Grove and Bramhall     | 12377                       | 17630                                   | 4528               | 12                   | 14            | 306                | 17.3                     | 139     | 11.3                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .06                                    | 7                            | 23                                    | †Dr. E. R. Cooper                                   |
| Hootle                       | 5892                        | 8500                                    | 672                | 8                    | 5             | 178                | 20.9                     | 100     | 11.8                | ...         | ...      | ...         | ...         | 1               | ...                     | 1          | 2                                       | .24                                    | 5                            | 28                                    | *Dr. Mary Russell                                   |
| Hoylake                      | 19745                       | 25100                                   | 5934               | 19                   | 14            | 431                | 17.2                     | 324     | 12.9                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 11                           | 26                                    | †Dr. J. B. Yeoman                                   |
| Knutsford                    | 6173                        | 5718                                    | 2485               | 12                   | 7             | 96                 | 16.8                     | 73      | 12.8                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .17                                    | 3                            | 31                                    | Dr. E. M. Burrell                                   |
| Longdendale                  | 5145                        | 4421                                    | 3545               | 4                    | 3             | 69                 | 15.6                     | 61      | 13.8                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 4                            | 58                                    | Dr. C. Kodilinye                                    |
| Lymm...                      | 5637                        | 5986                                    | 4241               | 8                    | 1             | 118                | 19.7                     | 65      | 10.9                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 3                            | 25                                    | Dr. J. Cullen                                       |
| Marple                       | 11088                       | 11960                                   | 7130               | 7                    | 8             | 189                | 15.8                     | 146     | 12.2                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .08                                    | 7                            | 37                                    | †Dr. W. A. Jackson                                  |
| Middlewich                   | 5857                        | 6020                                    | 1971               | 10                   | 4             | 130                | 21.6                     | 76      | 12.6                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 5                            | 38                                    | *Dr. W. S. Slater                                   |
| Nantwich                     | 8639                        | 8670                                    | 1177               | 10                   | 4             | 117                | 13.6                     | 90      | 10.4                | ...         | 1        | ...         | ...         | ...             | ...                     | ...        | 1                                       | .12                                    | 6                            | 51                                    | Dr. K. Knowles                                      |
| Neston                       | 7911                        | 8897                                    | 8495               | 9                    | 7             | 171                | 19.2                     | 120     | 13.5                | ...         | ...      | ...         | 1           | 1               | ...                     | ...        | 2                                       | .22                                    | 11                           | 64                                    | †Dr. J. B. Yeoman                                   |
| Northwich                    | 20827                       | 18070                                   | 2146               | 26                   | 11            | 315                | 17.4                     | 258     | 14.3                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 13                           | 41                                    | *Dr. W. S. Slater                                   |
| Runcorn                      | 22587                       | 21840                                   | 2914               | 16                   | 11            | 456                | 20.9                     | 289     | 13.2                | ...         | 4        | ...         | ...         | ...             | ...                     | 3          | 7                                       | .32                                    | 30                           | 66                                    | *Dr. E. N. H. Gray                                  |
| Sandbach                     | 8267                        | 8465                                    | 3716               | 3                    | 8             | 136                | 16.1                     | 106     | 12.5                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .12                                    | 6                            | 44                                    | †Dr. E. Henderson                                   |
| Wilmslow                     | 11956                       | 15080                                   | 7694               | 8                    | 9             | 233                | 15.8                     | 164     | 10.9                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .07                                    | 9                            | 38                                    | *Dr. D. G. Anderson                                 |
| Winsford                     | 11346                       | 10760                                   | 7094               | 9                    | 9             | 188                | 17.5                     | 153     | 14.2                | ...         | ...      | ...         | ...         | ...             | ...                     | 2          | 2                                       | .19                                    | 15                           | 80                                    | *Dr. W. S. Slater                                   |
| Wirral                       | 9599                        | 16020                                   | 5639               | 16                   | 4             | 206                | 19.1                     | 203     | 12.7                | ...         | ...      | ...         | 1           | 1               | ...                     | 1          | 3                                       | .19                                    | 7                            | 23                                    | †Dr. J. B. Yeoman                                   |
| Total Urban Districts        | 251873                      | 292350                                  | 96313              | 269                  | 174           | 5299               | 18.1                     | 3491    | 11.9                | ...         | 5        | ...         | 7           | 4               | ...                     | 19         | 35                                      | .12                                    | 216                          | 41                                    |                                                     |
| <b>RURAL DISTRICTS</b>       |                             |                                         |                    |                      |               |                    |                          |         |                     |             |          |             |             |                 |                         |            |                                         |                                        |                              |                                       |                                                     |
| Bucklow                      | 10094                       | 9730                                    | 46103              | 11                   | 3             | 164                | 16.8                     | 101     | 10.3                | ...         | ...      | ...         | ...         | 1               | ...                     | 1          | 2                                       | .20                                    | 6                            | 37                                    | Dr. C. H. Gattie                                    |
| Cheeter                      | 14518                       | 18440                                   | 43677              | 17                   | 12            | 354                | 19.2                     | 183     | 9.9                 | ...         | ...      | ...         | ...         | 1               | ...                     | 1          | 2                                       | .11                                    | 14                           | 40                                    | †Dr. Mary Russell                                   |
| Congleton                    | 10876                       | 11940                                   | 38704              | 11                   | 5             | 230                | 19.3                     | 128     | 10.7                | ...         | 1        | ...         | ...         | ...             | ...                     | ...        | 1                                       | .08                                    | 6                            | 26                                    | †Dr. D. J. Walker                                   |
| Disley                       | 2614                        | 2865                                    | 2208               | ...                  | 1             | 44                 | 15.4                     | 43      | 15.0                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 1                            | 23                                    | †Dr. G. V. Miller                                   |
| Macclesfield                 | 17675                       | 18220                                   | 74142              | 10                   | 6             | 271                | 14.9                     | 216     | 11.9                | ...         | ...      | ...         | ...         | ...             | ...                     | ...        | ...                                     | ...                                    | 11                           | 41                                    | †Dr. A. C. Gillies                                  |
| Nantwich                     | 23869                       | 27340                                   | 100844             | 20                   | 11            | 485                | 17.7                     | 322     | 11.8                | ...         | 1        | ...         | ...         | ...             | ...                     | 1          | 2                                       | .07                                    | 20                           | 41                                    | Dr. O. H. Blacklay                                  |
| Northwich                    | 26180                       | 28730                                   | 57504              | 44                   | 26            | 522                | 18.2                     | 301     | 10.5                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .03                                    | 16                           | 31                                    | *Dr. W. S. Slater                                   |
| Runcorn                      | 27580                       | 31743                                   | 45765              | 23                   | 11            | 679                | 18.2                     | 335     | 10.5                | ...         | ...      | ...         | ...         | ...             | ...                     | 2          | 2                                       | .06                                    | 20                           | 35                                    | *Dr. E. N. H. Gray                                  |
| Tarvin                       | 14388                       | 14110                                   | 62593              | 19                   | 8             | 250                | 17.7                     | 179     | 12.7                | ...         | 1        | ...         | ...         | ...             | ...                     | 1          | 2                                       | .14                                    | 10                           | 40                                    | †Dr. Mary Russell                                   |
| Tintwistle                   | 1392                        | 1145                                    | 11855              | 1                    | ...           | 24                 | 21.0                     | 30      | 26.2                | ...         | ...      | ...         | ...         | ...             | ...                     | 1          | 1                                       | .87                                    | 1                            | 42                                    | Dr. N. Fenton                                       |
| Total Rural Districts        | 149186                      | 164320                                  | 483395             | 156                  | 83            | 2923               | 17.8                     | 1838    | 11.2                | ...         | 3        | ...         | ...         | 2               | ...                     | 8          | 13                                      | .08                                    | 105                          | 36                                    | * Whole Time Medical Officers of Health.            |
| Administrative County        | 665575                      | 736980                                  | 622746             | 706                  | 405           | 13479              | 18.3                     | 8730    | 11.8                | ...         | 11       | 2           | 17          | 11              | ...                     | 44         | 85                                      | .12                                    | 536                          | 40                                    | † Acting during absence of M.O.H. with H.M. Forces. |

TABLE D\*

| SANITARY DISTRICTS.          | Estimated mid-year Population |        |        | Total Live Births |       |       | Death-rate per 1000 Population |      |      | Principal Zymotic Diseases Death-rate |      |      | Deaths under 1 year |      |      |
|------------------------------|-------------------------------|--------|--------|-------------------|-------|-------|--------------------------------|------|------|---------------------------------------|------|------|---------------------|------|------|
|                              | 1941                          | 1942   | 1943   | 1941              | 1942  | 1943  | 1941                           | 1942 | 1943 | 1941                                  | 1942 | 1943 | 1941                | 1942 | 1943 |
| <b>MUNICIPAL BOROUGHES</b>   |                               |        |        |                   |       |       |                                |      |      |                                       |      |      |                     |      |      |
| Altrincham ... ..            | 38240                         | 37530  | 36780  | 520               | 551   | 633   | 11.0                           | 10.8 | 12.1 | .21                                   | .05  | .11  | 32                  | 28   | 28   |
| Bebington ... ..             | 41910                         | 41880  | 41300  | 688               | 743   | 748   | 11.5                           | 9.6  | 11.0 | .24                                   | .19  | .22  | 36                  | 22   | 47   |
| Congleton ... ..             | 15160                         | 14620  | 14220  | 265               | 271   | 232   | 12.7                           | 10.5 | 12.2 | .33                                   | ...  | ...  | 20                  | 13   | 6    |
| Crewe ... ..                 | 48120                         | 47390  | 47550  | 781               | 897   | 917   | 13.9                           | 12.7 | 11.9 | .23                                   | .27  | .17  | 45                  | 52   | 36   |
| Dukinfield ... ..            | 17530                         | 17180  | 16970  | 270               | 299   | 312   | 13.9                           | 12.9 | 14.8 | .29                                   | .23  | .47  | 20                  | 13   | 23   |
| Hyde ... ..                  | 30190                         | 29280  | 28780  | 333               | 481   | 497   | 15.5                           | 13.5 | 14.9 | .23                                   | .20  | .17  | 25                  | 17   | 27   |
| Macclesfield ... ..          | 36040                         | 34800  | 33200  | 437               | 511   | 474   | 14.5                           | 12.3 | 13.7 | .14                                   | .03  | .09  | 28                  | 28   | 26   |
| Sale ... ..                  | 40450                         | 40020  | 39440  | 528               | 597   | 699   | 11.7                           | 9.9  | 11.4 | .20                                   | .12  | .13  | 21                  | 29   | 27   |
| Stalybridge ... ..           | 21330                         | 20840  | 20480  | 276               | 336   | 348   | 16.6                           | 15.0 | 17.0 | .19                                   | .05  | .20  | 26                  | 21   | 16   |
| Total Municipal Boroughs     | 288970                        | 283540 | 279320 | 4148              | 4697  | 4860  | 13.3                           | 11.7 | 12.8 | .22                                   | .14  | .16  | 253                 | 223  | 236  |
| <b>OTHER URBAN DISTRICTS</b> |                               |        |        |                   |       |       |                                |      |      |                                       |      |      |                     |      |      |
| Alderley Edge ... ..         | 3353                          | 3260   | 3151   | 33                | 49    | 38    | 13.7                           | 15.3 | 12.4 | ...                                   | .31  | ...  | ...                 | 2    | 1    |
| Alsager ... ..               | 3366                          | 4557   | 4732   | 45                | 64    | 91    | 14.6                           | 6.6  | 9.5  | ...                                   | ...  | .21  | 4                   | 1    | 6    |
| Bollington ... ..            | 5262                          | 5004   | 4811   | 78                | 75    | 68    | 12.5                           | 16.6 | 14.3 | .19                                   | ...  | .42  | 4                   | 4    | 6    |
| Bowdon ... ..                | 3215                          | 3048   | 2975   | 35                | 46    | 24    | 11.8                           | 12.5 | 10.1 | ...                                   | ...  | .34  | 1                   | 2    | 1    |
| Bredbury and Romiley         | 16400                         | 16050  | 15790  | 232               | 263   | 284   | 11.6                           | 9.7  | 13.5 | .24                                   | .31  | .19  | 4                   | 15   | 20   |
| Cheadle and Gatley ...       | 30780                         | 29910  | 28920  | 407               | 472   | 500   | 10.1                           | 9.1  | 10.9 | .13                                   | .10  | .03  | 19                  | 18   | 22   |
| Ellesmere Port ... ..        | 28530                         | 27850  | 27560  | 585               | 558   | 603   | 10.6                           | 8.8  | 10.0 | .32                                   | .36  | .36  | 41                  | 20   | 43   |
| Hale ... ..                  | 12270                         | 11830  | 11450  | 125               | 138   | 161   | 12.1                           | 10.7 | 12.7 | ...                                   | .08  | .35  | 4                   | 7    | 11   |
| Hazel Grove and Bramhall     | 18920                         | 18380  | 17770  | 252               | 279   | 319   | 12.4                           | 11.5 | 12.3 | .16                                   | .22  | .23  | 13                  | 12   | 12   |
| Hoole ... ..                 | 8864                          | 8638   | 8473   | 146               | 145   | 158   | 10.3                           | 10.8 | 10.4 | .34                                   | .12  | ...  | 6                   | 7    | 7    |
| Hoylake ... ..               | 28580                         | 28080  | 26340  | 325               | 395   | 392   | 13.6                           | 11.3 | 13.9 | .03                                   | .14  | .08  | 16                  | 13   | 15   |
| Knutsford ... ..             | 6210                          | 5838   | 5670   | 63                | 99    | 107   | 11.9                           | 11.1 | 12.0 | .48                                   | .17  | ...  | ...                 | 4    | 6    |
| Longdendale ... ..           | 4787                          | 4603   | 4433   | 57                | 45    | 64    | 15.7                           | 16.1 | 12.9 | .21                                   | ...  | ...  | 6                   | 2    | 1    |
| Lymm ... ..                  | 6065                          | 6008   | 5884   | 79                | 103   | 89    | 12.4                           | 11.0 | 10.2 | .33                                   | ...  | ...  | 7                   | 2    | 4    |
| Marple ... ..                | 13820                         | 13180  | 12650  | 137               | 157   | 146   | 14.2                           | 11.2 | 11.7 | .07                                   | ...  | ...  | 6                   | 3    | 5    |
| Middlewich ... ..            | 6435                          | 6254   | 6097   | 117               | 127   | 127   | 10.7                           | 10.7 | 10.8 | ...                                   | .16  | ...  | 7                   | 7    | 3    |
| Nantwich ... ..              | 8646                          | 8520   | 8547   | 100               | 122   | 123   | 15.8                           | 15.1 | 13.1 | ...                                   | .12  | .12  | 8                   | 12   | 5    |
| Neston ... ..                | 9468                          | 9645   | 9275   | 145               | 135   | 170   | 12.4                           | 12.2 | 11.8 | ...                                   | .11  | ...  | 11                  | 3    | 7    |
| Northwich ... ..             | 18690                         | 18290  | 18130  | 283               | 277   | 334   | 11.3                           | 11.3 | 12.2 | .05                                   | .16  | ...  | 14                  | 16   | 16   |
| Runcorn ... ..               | 22830                         | 22730  | 22450  | 413               | 409   | 432   | 12.1                           | 11.1 | 13.2 | .18                                   | .22  | .18  | 28                  | 23   | 23   |
| Sandbach ... ..              | 8889                          | 8685   | 8462   | 158               | 129   | 146   | 11.2                           | 12.7 | 12.8 | ...                                   | .24  | ...  | 10                  | 5    | 13   |
| Wilmslow ... ..              | 16130                         | 15680  | 15160  | 203               | 219   | 219   | 10.8                           | 12.4 | 10.0 | .12                                   | .19  | .07  | 7                   | 18   | 4    |
| Winsford ... ..              | 11580                         | 11230  | 10850  | 178               | 211   | 184   | 11.4                           | 13.6 | 13.8 | .69                                   | .36  | .37  | 9                   | 8    | 4    |
| Wirral ... ..                | 18130                         | 17390  | 16400  | 245               | 267   | 263   | 12.0                           | 10.9 | 11.3 | .39                                   | .12  | .06  | 15                  | 7    | 11   |
| Total Urban Districts        | 311220                        | 304760 | 295980 | 4421              | 4784  | 5042  | 11.9                           | 11.1 | 11.9 | .17                                   | .16  | .14  | 240                 | 211  | 246  |
| <b>RURAL DISTRICTS</b>       |                               |        |        |                   |       |       |                                |      |      |                                       |      |      |                     |      |      |
| Bucklow ... ..               | 10430                         | 10130  | 9843   | 129               | 133   | 141   | 9.4                            | 9.4  | 12.2 | .10                                   | ...  | ...  | 4                   | 5    | 2    |
| Chester ... ..               | 19960                         | 19570  | 19090  | 296               | 316   | 360   | 9.5                            | 10.3 | 10.6 | .30                                   | .15  | .16  | 17                  | 16   | 18   |
| Congleton ... ..             | 12940                         | 12250  | 11940  | 173               | 170   | 190   | 13.1                           | 12.3 | 12.5 | .31                                   | .24  | .08  | 12                  | 8    | 9    |
| Disley ... ..                | 3059                          | 2979   | 2880   | 33                | 26    | 36    | 13.7                           | 7.7  | 10.4 | ...                                   | ...  | ...  | 1                   | 1    | 2    |
| Macclesfield ... ..          | 19610                         | 18330  | 18390  | 202               | 242   | 220   | 10.3                           | 10.2 | 11.6 | .15                                   | .05  | .22  | 5                   | 10   | 10   |
| Nantwich ... ..              | 27270                         | 26870  | 26960  | 401               | 454   | 478   | 11.5                           | 10.3 | 11.3 | .29                                   | .26  | .07  | 28                  | 22   | 16   |
| Northwich ... ..             | 30850                         | 29800  | 28900  | 481               | 482   | 476   | 11.0                           | 10.4 | 10.7 | .26                                   | ...  | ...  | 18                  | 22   | 18   |
| Runcorn ... ..               | 33130                         | 32880  | 32150  | 407               | 507   | 504   | 10.5                           | 11.2 | 11.5 | .09                                   | .03  | .16  | 16                  | 15   | 24   |
| Tarvin ... ..                | 15730                         | 15020  | 14330  | 249               | 264   | 266   | 10.7                           | 10.1 | 11.3 | .19                                   | .13  | .07  | 13                  | 7    | 8    |
| Tintwistle ... ..            | 1241                          | 1191   | 1147   | 20                | 12    | 15    | 11.3                           | 9.2  | 20.9 | ...                                   | ...  | ...  | 1                   | ...  | 1    |
| Total Rural Districts        | 174220                        | 169600 | 165630 | 2391              | 2606  | 2686  | 10.8                           | 10.5 | 11.4 | .21                                   | .10  | .10  | 115                 | 106  | 108  |
| Administrative County        | 774410                        | 757900 | 740930 | 10980             | 12087 | 12588 | 12.2                           | 11.2 | 12.2 | .20                                   | .14  | .14  | 608                 | 540  | 590  |

\* This Table comprises the statistics omitted on security grounds from the Annual Reports for the previous three years.